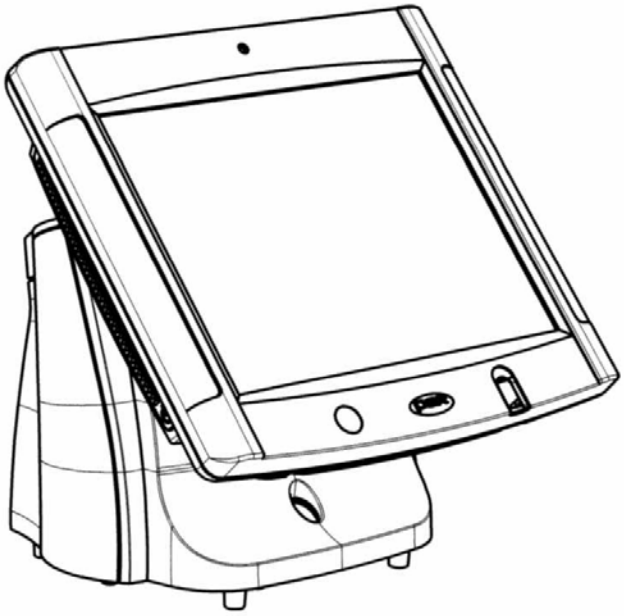
EverServ Series 6000

USERS GUIDE



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INTRODUCTION

This guide provides information about the EverServ System. It is presented in five parts as outlined in the table below.

Introduction	Register cabling diagram, sample system configurations.
Equipment Description	Specifications, a detailed description of each system components.
Setup	Connect cables to register.
Turn On/Off	Turning on/off EverServ register.
BIOS	Provides information on BIOS configurations.

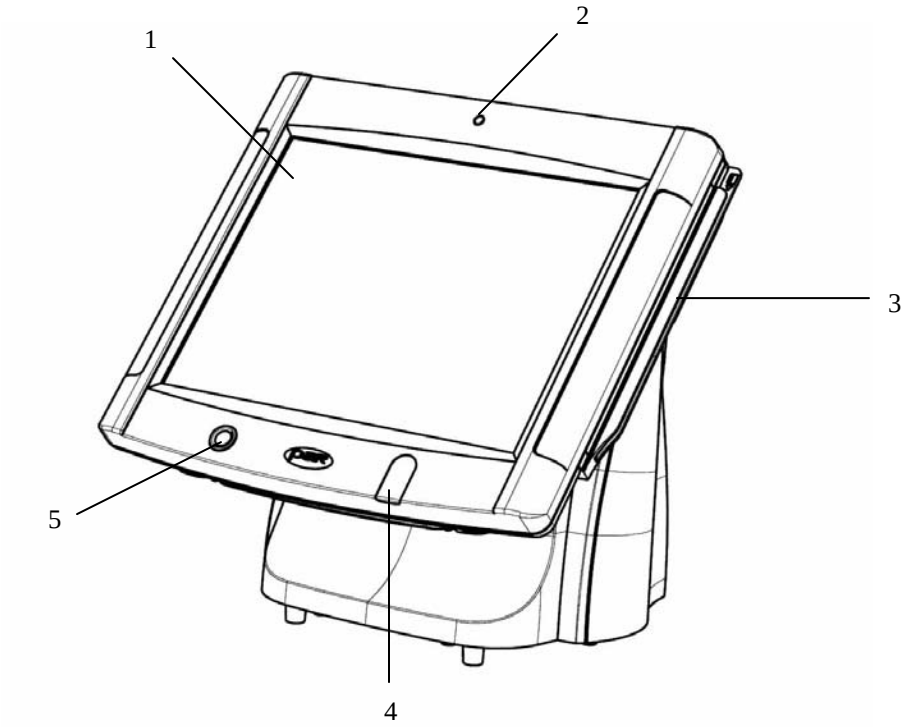
GLOSSARY OF TERMS

- LCD – Liquid Crystal Display
- VGA – Video Graphics Array
- EFT – Electronic Funds Transfer
- LAN – Local Area Network
- DDR – Double Date Rate
- KVS- Kitchen Video System
- POS – Point of Sale
- BIOS – Basic Input Output System
- PCI – Peripheral Component Interconnect
- PnP – Plug and Play
- IDE – Integrated/Intelligent Drive Electronics
- ACPI – Advanced Configuration and Power Interface

EQUIPMENT DESCRIPTION

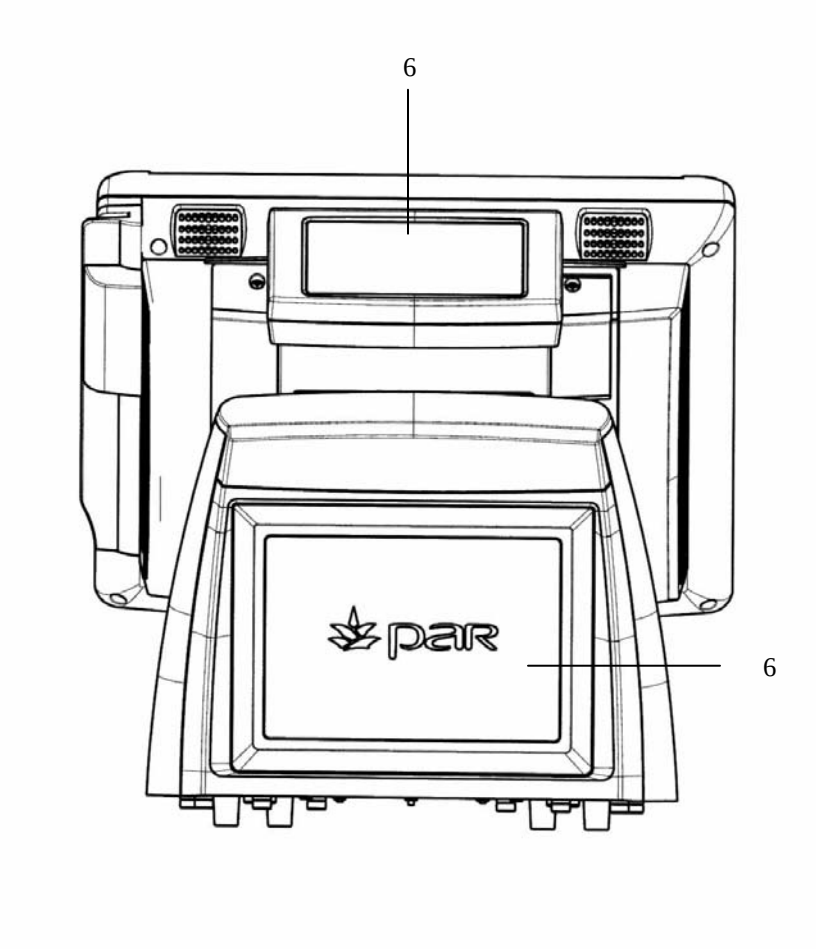
POS REGISTER

	Item	Description
1.	LCD display	A screen that shows programming or order information.
2.	Power indicator	Shows that power is present.
3.	Magnetic card reader	Accepts employee keycards. Provides access to functions. Not present on all registers.
4.	Biometric Reader	Permits access to terminal through fingerprint recognition.
5.	I-Button	RFID tag reader.



Front View

Item		Description
6.	Customer Display	Shows the customer the order total, tax total, and any change due. It may also show preset advertisement information or messages. Not present on all registers.



Rear View

CONNECTOR WELLS

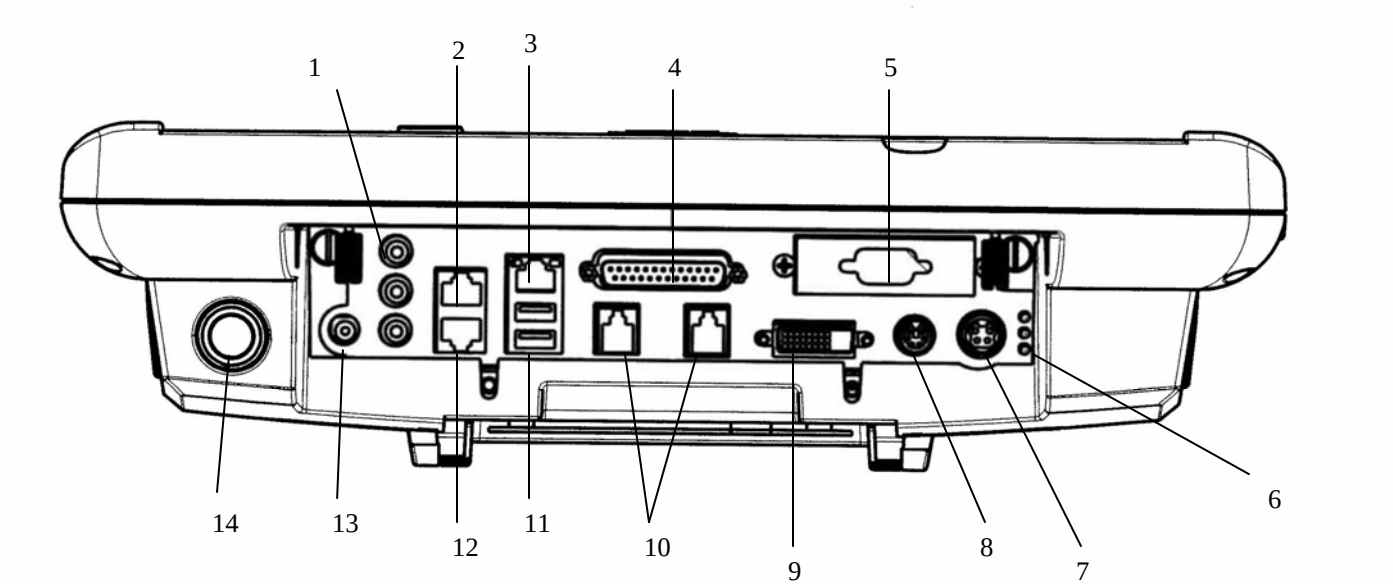
	Item	Description
1.	Audio Jacks	Connects to cables from speaker left, speaker right, and headphone.
2.	COMM serial port 1 (RS-232-C)	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers, and other serial devices.
3.	LAN	Connects to a LAN cable.
4.	Printer Port	Connects to the cable from a printer. A Centronics-compatible parallel port.
5.	Video Option	Connects to other devices like coin dispenser or printers.

*The F7527 +24V Powered USB feature is not supported in units which contain the F7820 IO expansion board. Attaching peripherals to both +24V Powered USB ports is not permitted.

6.	Status lights	Provides troubleshooting information to service personnel.
7.	Power Receptacle	Connects to the DC power cable.
8.	Keyboard receptacle	Allows connection of a PC keyboard or mouse.
9.	DVI receptacle	Digital display connector.
10.	Cash Drawer Receptacle	Connect to cash drawers.
11.	USB Ports	Connects to other devices like coin dispenser or printers.
12.	COMM Serial Port 2	Connects to coin dispensers, remote customer displays, remote order displays, EFT devices, printers, and other serial devices.
13.	12V Power	Provides power for removable head display.

*The EverServ 6000 Terminal supports a +12V dc power accessory jack. The EverServ terminal also supports the optional F7820 IO expansion card in the pedestal. The F7820 IO Expansion Card also provides a +12V dc power accessory jack. Use of both power jacks simultaneously is not permitted.

14.	Power switch	Push in momentarily to turn “on”, push and hold to turn “off”. You can reach it by sliding your hand under the left side of the register toward the back. Leave the kiosk on at all times, except when servicing the unit.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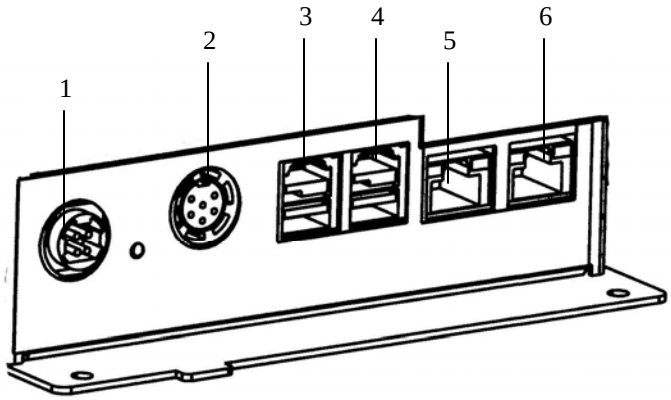
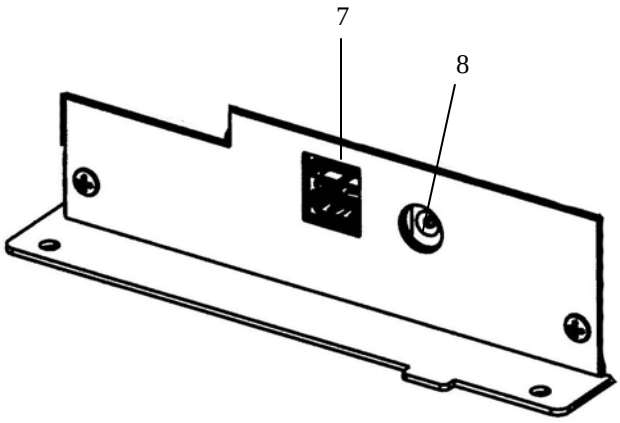
PEDESTAL CONNECTOR WELLS

Item	Description
1. Power Receptacle	Connects to power cable.
2. KVS Receptacle	Connects to KVS cable.
3. USB 24V @ 2A	Connects to powered USB devices.
4. USB 12V @ 2A	Connects to powered USB devices.
5. COM5	Connects to various serial devices.
6. COM6	Connects to various serial devices.
7. USB	Connects to other USB devices.
8. 12V DC @ 2A	Connects to DC power cable.

*The EverServ 6000 Terminal supports a +12V dc power accessory jack. The EverServ terminal also supports the optional F7820 IO expansion card in the pedestal. The F7820 IO Expansion Card also provides a +12V dc power accessory jack. Use of both power jacks simultaneously is not permitted.





SPECIFICATIONS

FEATURES

Description	Part Number
PROCESSORS:	
1.73 GHz Celeron M	F7110
2.0 GHz Core Duo	F7111
2.16 GHz Core 2 Duo	F7112
MEMORY:	
512 MB DDR SDRAM	F7202
1 GB DDR SDRAM	F7203
2 GB DDR SDRAM	F7204
MAGNETIC STRIP READERS:	
Blank Cover Plate	F7300
2-Track Swipe Reader – OPOS	F7302
3-Track Swipe Reader (USB)	F7303
3-Track Swipe Reader (RS232)	F7303-01
3-Track Swipe Reader (PS2)	F7303-02
PROGRAM/DATA STORAGE:	
80 GB 2.5” SATA HDD	F7401
8 GB Compact Flash (CF) Card	F7410
2 GB SD Memory Card	F7415
4 GB SD Memory Card	F7416
RAID Support	F7420
512 KB Battery Backed SRAM	F7500
MISCELLANEOUS OPTIONS:	
COM4 with RJ45 Interface	F7520
+24V Powered USB	F7525
Integrated Stereo Speakers	F7540
Mini-PCI WiFi Card	F7550
Bluetooth Card	F7551
Fingerprint Sensor	F7560
I-Button Reader	F7570
Access Panel	F7610
4 Line x 20 Character VFD	F7611
International (Double Byte) VFD	F7613
I/O PORT EXPANSION CARD OPTIONS (F7820):	
Set COM 5 Configured for +5V	F7805-5
Set COM 5 Configured for +12V	F7805-12
Set COM 6 Configured for +5V	F7806-5
Set COM 6 Configured for +12V	F7806-12
Pedestal Top Cover	F7860
Pedestal 4 Line x 20 Character VFD	F7861
Pedestal Int’l VFD (Double Byte)	F7863
Pedestal 3 Track MSR (USB)	F7866
Pedestal 3 Track MSR (RS232)	F7866-01
Crew Side Pedestal Panel (Blank)	F7870

Crew Side Pedestal - Optical Finger Print	F7871
Customer Side Panel (Opaque)	F7880
Point of Promotion Lens (Clear)	F7881
Graphics LCD w/Touch Screen	F7882
Graphics LCD w/o Touch Screen	F7883

CASH DRAWER PARTS:

Cash drawer lock	F1500
Cash drawer springs	980000501
Shock dampers	980000540

BIOS

Introduction

This user manual describes the AMI BIOS setup program and configuration options of the EverServ motherboard. The BIOS setup program allows users to modify the basic system configuration of the EverServ motherboard.

Starting Setup

The AMI BIOS is activated when the computer is turned on. The setup program can be activated in one of two ways.

1. Press the **DELETE** key as soon as the system is turned on or
2. Press the **DELETE** key when the "**Press Del to enter SETUP**" message appears on the screen.

If the message disappears before the **DELETE** key is pressed, restart the computer and try again.

Using Setup

Use the arrow keys to highlight items, press **ENTER** to select, use the PageUp and PageDown keys to change entries, press **F1** for help and press **ESC** to quit. Navigation keys are shown in.

Key	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left hand side
Right arrow	Move to the item on the right hand side
Esc key	Main Menu – Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu -- Exit current page and return to Main Menu
Page Up key	Increase the numeric value or make changes
Page Dn key	Decrease the numeric value or make changes
F1 key	General help, only for Status Page Setup Menu and Option Page Setup Menu
F2 /F3 key	Change color from total 16 colors. F2 to select color forward.
F10 key	Save all the CMOS changes, only for Main Menu

Table 1-1: BIOS Navigation Keys

Getting Help

When **F1** is pressed a small help window describing the appropriate keys to use and the possible selections for the highlighted item appears. To exit the Help Window press **ESC** or the **F1** key again.

Unable to Reboot after Configuration Changes

If the computer cannot boot after changes to the system configuration is made, CMOS defaults. Use the clear CMOS jumper described in the motherboard user manual.

BIOS Menu Bar

The **menu bar** on top of the BIOS screen has the following main items:

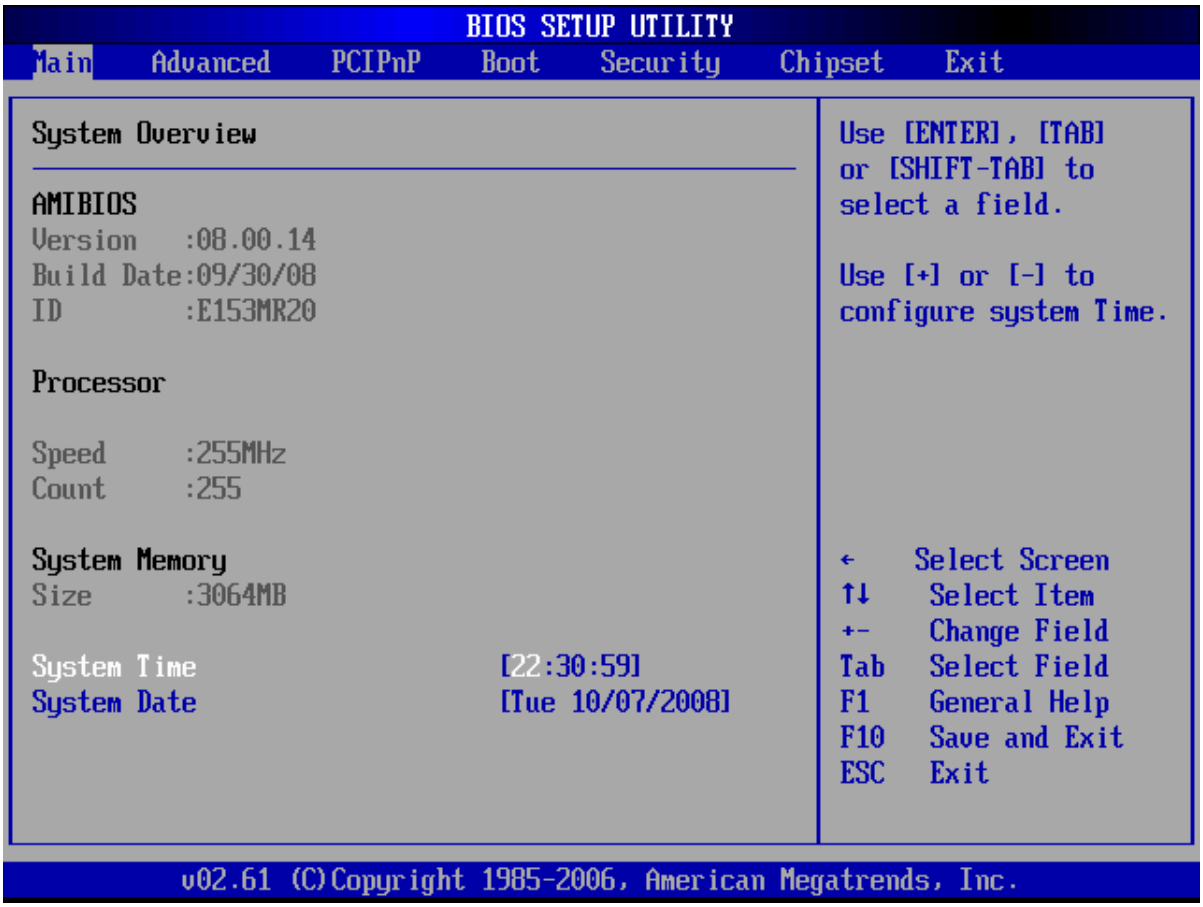
- **Main** Changes the basic system configuration.
- **Advanced** Changes the advanced system settings.
- **PCIPnP** Changes the advanced PCI/PnP Settings
- **Boot** Changes the system boot configuration.
- **Security** Changes the security settings.
- **Chipset** Changes the chipset settings.

- **Exit** Selects exit options and loads default settings

The following sections completely describe the configuration options found in the menu items at the top of the BIOS screen and listed above.

Main

The **Main** BIOS menu appears when the **BIOS Setup** program is entered. The **Main** menu gives an overview of the basic system information.



BIOS Menu 1: Main

➔ System Overview

The **System Overview** lists a brief summary of different system components. The fields in **System Overview** cannot be changed. The items shown in the system overview include:

- **AMI BIOS**: Displays auto-detected BIOS information
  - **Version**: Current BIOS version
  - **Build Date**: Date the current BIOS version was made
  - **ID**: Installed BIOS ID
- **Processor**: Displays auto-detected CPU specifications
  - **Speed**: Lists the processor speed
  - **Count**: The number of CPUs on the motherboard
- **System Memory**: Displays the auto-detected system memory.
  - **Size**: Lists memory size

The **System Overview** field also has two user configurable fields:

➔ **System Time [xx:xx:xx]**

Use the **System Time** option to set the system time. Manually enter the hours, minutes and seconds.

➔ **System Date [xx/xx/xx]**

Use the **System Date** option to set the system date. Manually enter the day, month and year.

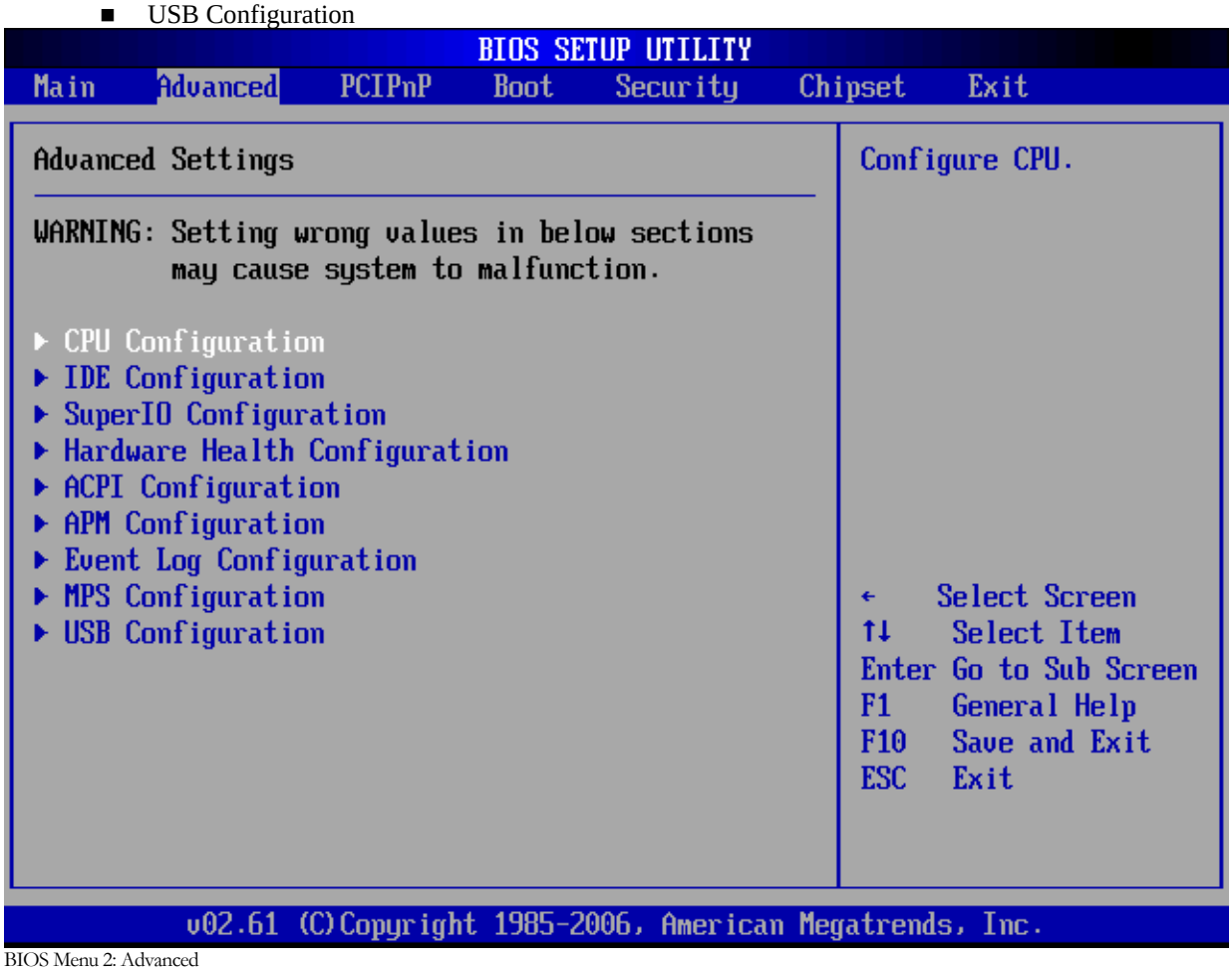
Advanced

Use the **Advanced** menu to configure the CPU and peripheral devices through the following sub-menus:

WARNING:

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

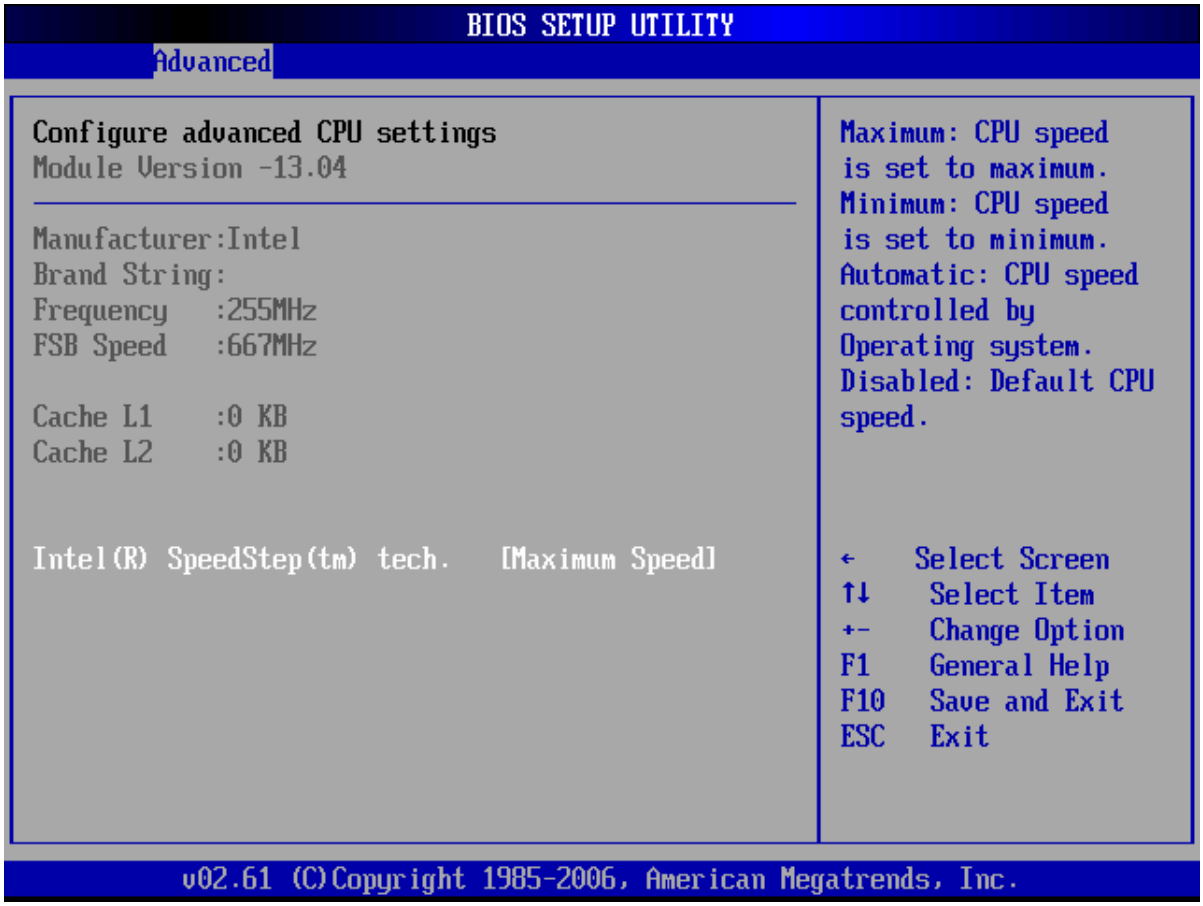
- CPU Configuration
- IDE Configuration
- SuperIO Configuration
- Hardware Health Configuration
- ACPI Configuration
- APM Configuration
- Event Log Configuration
- MPS Configuration
- USB Configuration



BIOS Menu 2: Advanced

CPU Configuration

Use the **CPU Configuration** menu to view detailed CPU specifications and configure the CPU.



BIOS Menu 3: CPU Configuration

The CPU Configuration menu (BIOS Menu 3) lists the following CPU details:

- **Manufacturer**: Lists the name of the CPU manufacturer
- **Brand String**: Lists the brand name of the CPU being used
- **Frequency:** Lists the CPU processing speed
- **FSB Speed**: Lists the FSB speed
- **Cache L1**: Lists the CPU L1 cache size
- **Cache L2**: Lists the CPU L2 cache size

The following **CPU Configuration** menu item can be configured.

- Intel ® SpeedStep ™ tech.

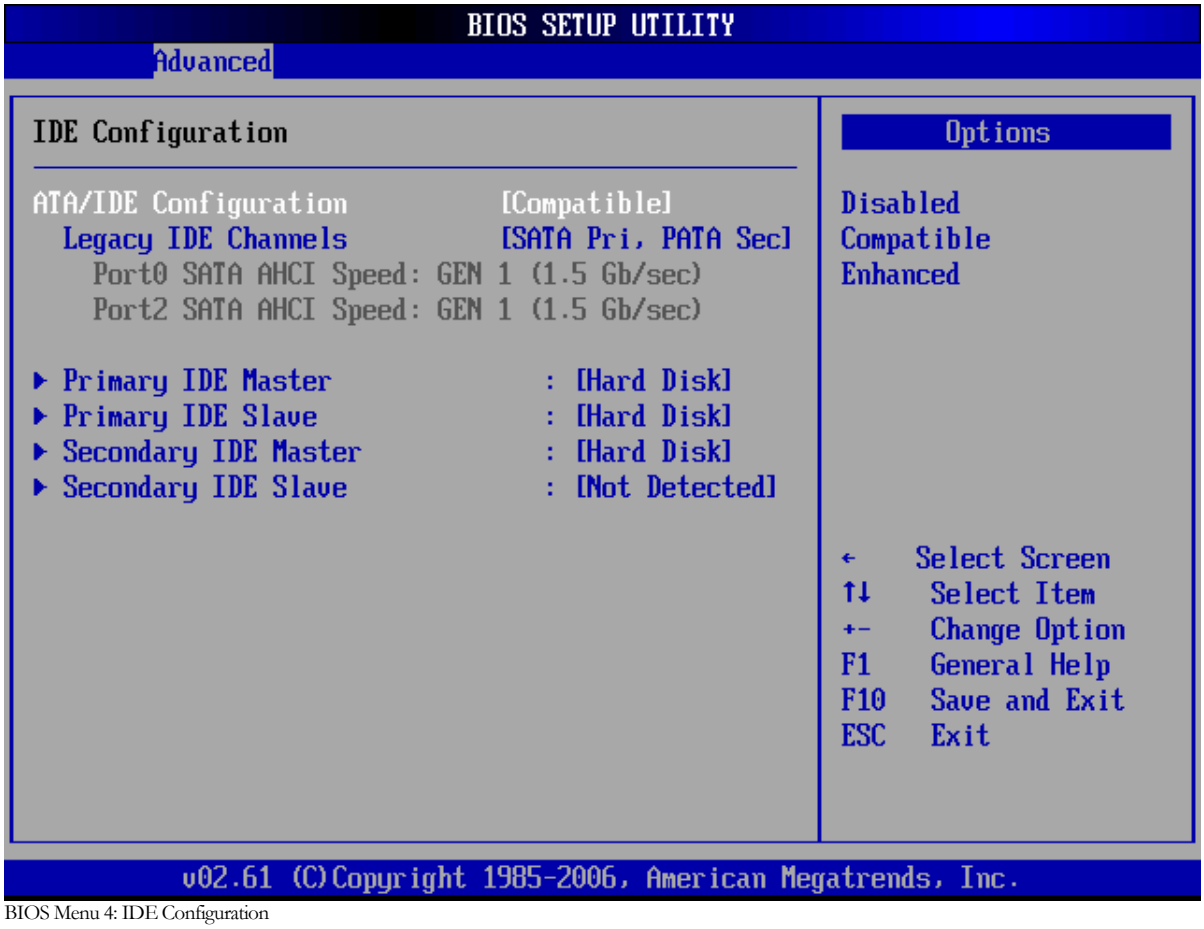
➔ Intel (R) SpeedStep (tm) tech. [Maximum Speed]

Use the **Intel (R) SpeedStep (tm) tech.** option to set the CPU speed.

➔	**Maximum Speed**	DEFAULT	CPU speed is set to maximum
➔	**Minimum Speed**		CPU speed is set to minimum
➔	**Automatic**		CPU speed is set to automatic
➔	**Disabled**		CPU speed is disabled

IDE Configuration

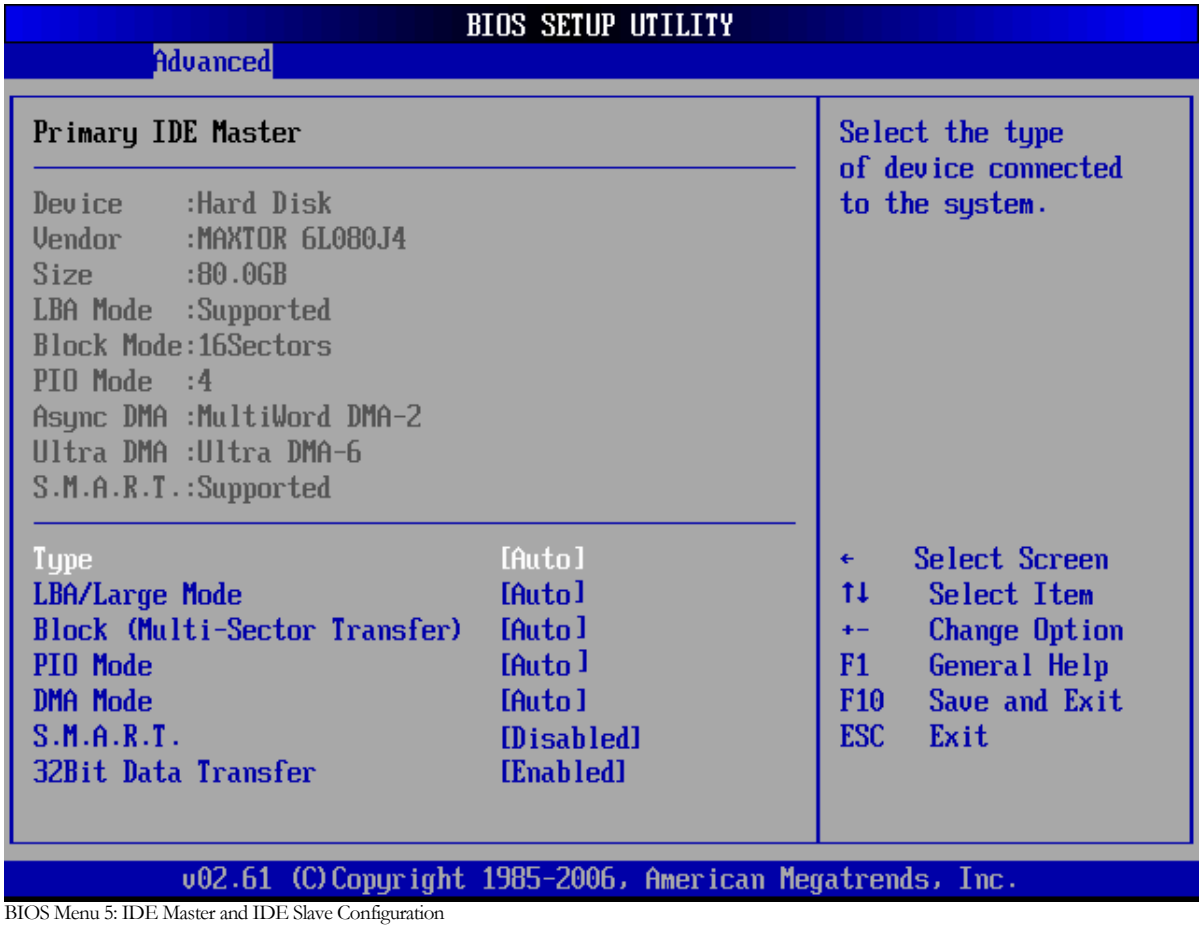
Use the **IDE Configuration** menu to change and/or set the configuration of the IDE devices installed in the system.



BIOS Menu 4: IDE Configuration

IDE Master, IDE Slave

Use the **IDE Master** and **IDE Slave** configuration menu to view both primary and secondary IDE device details and configure the IDE devices connected to the system.



BIOS Menu 5: IDE Master and IDE Slave Configuration

Auto-Detected Drive Parameters

The "grayed-out" items in the left frame are IDE disk drive parameters automatically detected from the firmware of the selected IDE disk drive. The drive parameters are listed as follows:

- **Device**: Lists the device type (e.g. hard disk, CD-ROM etc.)
- **Type**: Indicates the type of devices a user can manually select
- **Vendor**: Lists the device manufacturer
- **Size**: List the storage capacity of the device.
- **LBA Mode**: Indicates whether the LBA (Logical Block Addressing) is a method of addressing data on a disk drive is supported or not.
- **Block Mode**: Block mode boosts IDE drive performance by increasing the amount of data transferred. Only 512 bytes of data can be transferred per interrupt if block mode is not used. Block mode allows transfers of up to 64 KB per interrupt.
- **PIO Mode**: Indicates the PIO mode of the installed device.
- **Async DMA**: Indicates the highest Asynchronous DMA Mode that is supported.
- **Ultra DMA**: Indicates the highest Synchronous DMA Mode that is supported.
- **S.M.A.R.T.**: Indicates whether or not the Self-Monitoring Analysis and Reporting Technology protocol is supported.
- **32Bit Data Transfer**: Enables 32-bit data transfer.

➔ Type [Auto]

Use the **Type** BIOS option select the type of device the AMIBIOS attempts to boot from after the Power-On Self-Test (POST) is complete.

➔ **Not Installed**		BIOS is prevented from searching for an IDE disk drive on the specified channel.
➔ **Auto**	**DEFAULT**	The BIOS auto detects the IDE disk drive type attached to the specified channel. This setting should be used if an IDE hard disk drive is attached to the specified channel.
➔ **CD/DVD**		The CD/DVD option specifies that an IDE CD-ROM drive is attached to the specified IDE channel. The BIOS does not attempt to search for other types of IDE disk drives on the specified channel.
➔ **ARMD**		This option specifies an ATAPI Removable Media Device. These include, but are not limited to: ➔ **ZIP** ➔ **LS-120**

➔ LBA/Large Mode [Auto]

Use the **LBA/Large Mode** option to disable or enable BIOS to auto detects LBA (Logical Block Addressing). LBA is a method of addressing data on a disk drive. In LBA mode, the maximum drive capacity is 137 GB.

➔ **Disabled**		BIOS is prevented from using the LBA mode control on the specified channel.
➔ **Auto**	**DEFAULT**	BIOS auto detects the LBA mode control on the specified channel.

➔ Block (Multi Sector Transfer) [Auto]

Use the **Block (Multi Sector Transfer)** to disable or enable BIOS to auto detect if the device supports multi-sector transfers.

➔ **Disabled** BIOS is prevented from using Multi-Sector Transfer on the specified channel. The data to and from the device occurs one sector at a time.

➔ **Auto** **DEFAULT** BIOS auto detects Multi-Sector Transfer support on the drive on the specified channel. If supported the data transfer to and from the device occurs multiple sectors at a time.

➔ PIO Mode [Auto]

Use the **PIO Mode** option to select the IDE PIO (Programmable I/O) mode program timing cycles between the IDE drive and the programmable IDE controller. As the PIO mode increases, the cycle time decreases.

➔ **Auto** **DEFAULT** BIOS auto detects the PIO mode. Use this value if the IDE disk drive support cannot be determined.

➔ **0** PIO mode 0 selected with a maximum transfer rate of 3.3MBps

➔ **1** PIO mode 1 selected with a maximum transfer rate of 5.2MBps

➔ **2** PIO mode 2 selected with a maximum transfer rate of 8.3MBps

➔ **3** PIO mode 3 selected with a maximum transfer rate of 11.1MBps

➔ **4** PIO mode 4 selected with a maximum transfer rate of 16.6MBps

(This setting generally works with all hard disk drives manufactured after 1999. For other disk drives, such as IDE CD-ROM drives, check the specifications of the drive.)

➔ DMA Mode [Auto]

Use the **DMA Mode** BIOS selection to adjust the DMA mode options.

➔ **Auto** **DEFAULT** BIOS auto detects the DMA mode. Use this value if the IDE disk drive support cannot be determined.

➔ **SWDMA0** Single Word DMA mode 0 selected with a maximum data transfer rate of 2.1MBps

➔ **SWDMA1** Single Word DMA mode 1 selected with a maximum data transfer rate of 4.2MBps

➔ **SWDMA2** Single Word DMA mode 2 selected with a maximum data transfer rate of 8.3MBps

➔ **MWDMA0** Multi Word DMA mode 0 selected with a maximum data transfer rate of 4.2MBps

➔ **MWDMA1** Multi Word DMA mode 1 selected with a maximum data transfer rate of 13.3MBps

➔ **MWDMA2** Multi Word DMA mode 2 selected with a maximum data transfer rate of 16.6MBps

➔ **UDMA1** Ultra DMA mode 0 selected with a maximum data transfer rate of 16.6MBps

➔ **UDMA1** Ultra DMA mode 1 selected with a maximum data transfer rate of 25MBps

➔ **UDMA2** Ultra DMA mode 2 selected with a maximum data transfer rate

of 33.3MBps

- ➔ **UDMA3** Ultra DMA mode 3 selected with a maximum data transfer rate of 44MBps (To use this mode, it is required that an 80-conductor ATA cable is used.)
- ➔ **UDMA4** Ultra DMA mode 4 selected with a maximum data transfer rate of 66.6MBps (To use this mode, it is required that an 80-conductor ATA cable is used.)
- ➔ **UDMA5** Ultra DMA mode 5 selected with a maximum data transfer rate of 99.9MBps (To use this mode, it is required that an 80-conductor ATA cable is used.)

➔ S.M.A.R.T [Disabled]

Use the **S.M.A.R.T** option to auto-detect, disable or enable Self-Monitoring Analysis and Reporting Technology (SMART) on the drive on the specified channel. **S.M.A.R.T** predicts impending drive failures. The **S.M.A.R.T** BIOS option enables or disables this function.

- ➔ **Auto** BIOS auto detects HDD SMART support.
- ➔ **Disabled** **DEFAULT** Prevents BIOS from using the HDD SMART feature.
- ➔ **Enabled** Allows BIOS to use the HDD SMART feature

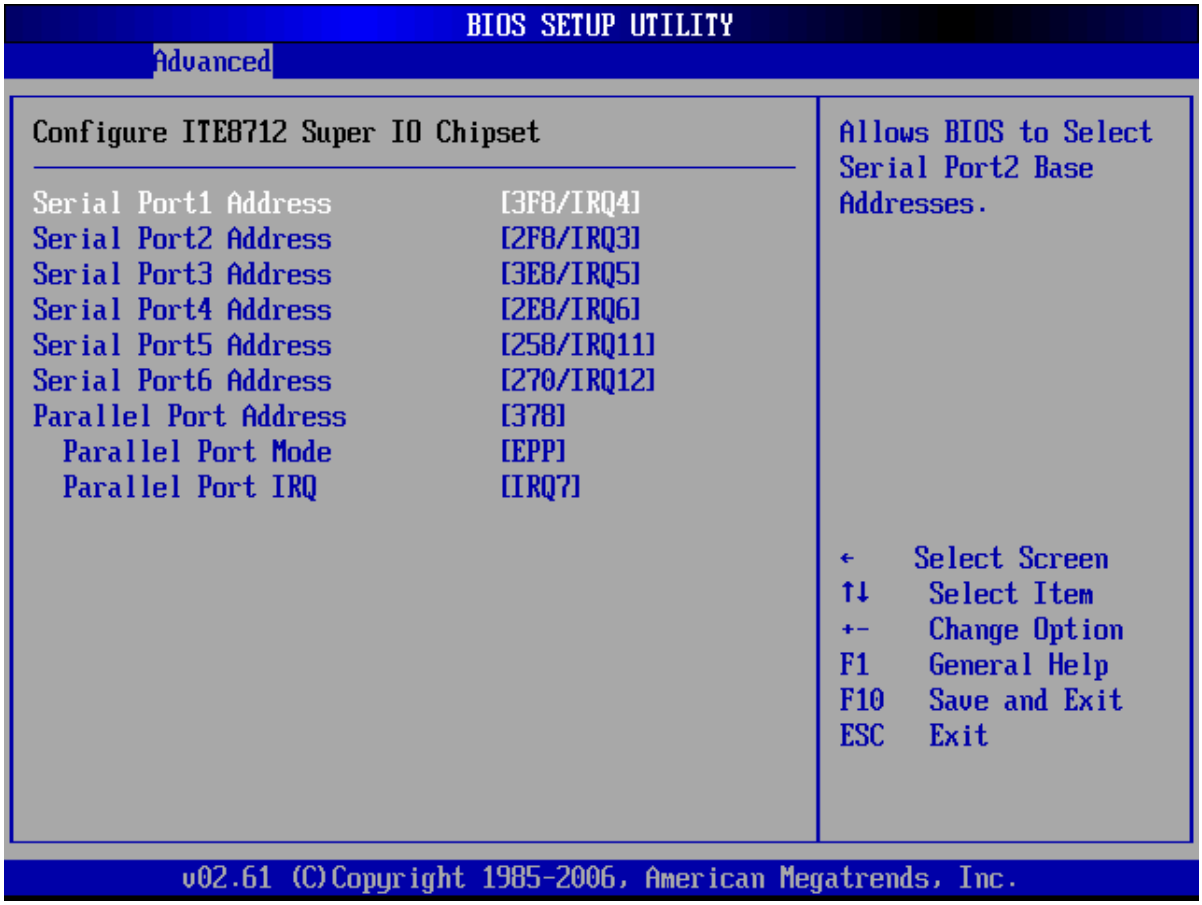
➔ 32Bit Data Transfer [Enabled]

Use the **32Bit Data Transfer** BIOS option to enables or disable 32-bit data transfers.

- ➔ **Disabled** Prevents the BIOS from using 32-bit data transfers.
- ➔ **Enabled** **DEFAULT** Allows BIOS to use 32-bit data transfers on supported hard disk drives.

Super IO Configuration

Use the **Super IO Configuration** menu to set or change the configurations for the FDD controllers, parallel ports and serial ports.



BIOS Menu 6: Super IO Configuration

➔ Serial Port1 Address [3F8/IRQ4]

Use the **Serial Port1 Address** option to select the Serial Port 1 base address.

- ➔ **Disabled** — No base address is assigned to Serial Port 1
- ➔ **3F8/IRQ4** **DEFAULT** — Serial Port 1 I/O port address is 3F8 and the interrupt address is IRQ4
- ➔ **3E8/IRQ4** — Serial Port 1 I/O port address is 3E8 and the interrupt address is IRQ4
- ➔ **2E8/IRQ3** — Serial Port 1 I/O port address is 2E8 and the interrupt address is IRQ3

➔ Serial Port2 Address [2F8/IRQ3]

Use the **Serial Port2 Address** option to select the Serial Port 2 base address.

- ➔ **Disabled** — No base address is assigned to Serial Port 2
- ➔ **2F8/IRQ3** **DEFAULT** — Serial Port 2 I/O port address is 3F8 and the interrupt address is IRQ3

➔ **3E8/IRQ4** Serial Port 2 I/O port address is 3E8 and the interrupt address is IRQ4

➔ **2E8/IRQ3** Serial Port 2 I/O port address is 2E8 and the interrupt address is IRQ3

➔ Parallel Port Address [378]

Use the **Parallel Port Address** option to select the parallel port base address.

➔ **Disabled** No base address is assigned to the Parallel Port

➔ **378** **DEFAULT** Parallel Port I/O port address is 378

➔ **278** Parallel Port I/O port address is 278

➔ **3BC** Parallel Port I/O port address is 3BC

➔ Parallel Port Mode [EPP]

Use the **Parallel Port Mode** option to select the mode the parallel port operates in.

➔ **Normal** The normal parallel port mode is the standard mode for parallel port operation.

➔ **EPP** **DEFAULT** The parallel port operates in the enhanced parallel port mode (EPP). The EPP mode supports bi-directional communication between the system and the parallel port device and the transmission rates between the two are much faster than the Normal mode.

➔ **ECP** The parallel port operates in the extended capabilities port (ECP) mode. The ECP mode supports bi-directional communication between the system and the parallel port device and the transmission rates between the two are much faster than the Normal mode.

➔ **ECP+EPP** The parallel port operates in the extended capabilities port (ECP) mode. The ECP mode supports bi-directional communication between the system and the parallel port device and the transmission rates between the two are much faster than the Normal mode

The parallel port is also be compatible with EPP devices described above

➔ Parallel Port IRQ [IRQ7]

Use the **Parallel Port IRQ** selection to set the parallel port interrupt address.

➔ **IRQ5** IRQ5 is assigned as the parallel port interrupt address

➔ **IRQ7** **DEFAULT** IRQ7 is assigned as the parallel port interrupt address

➔ Serial Port3 Address [3E8/IRQ5]

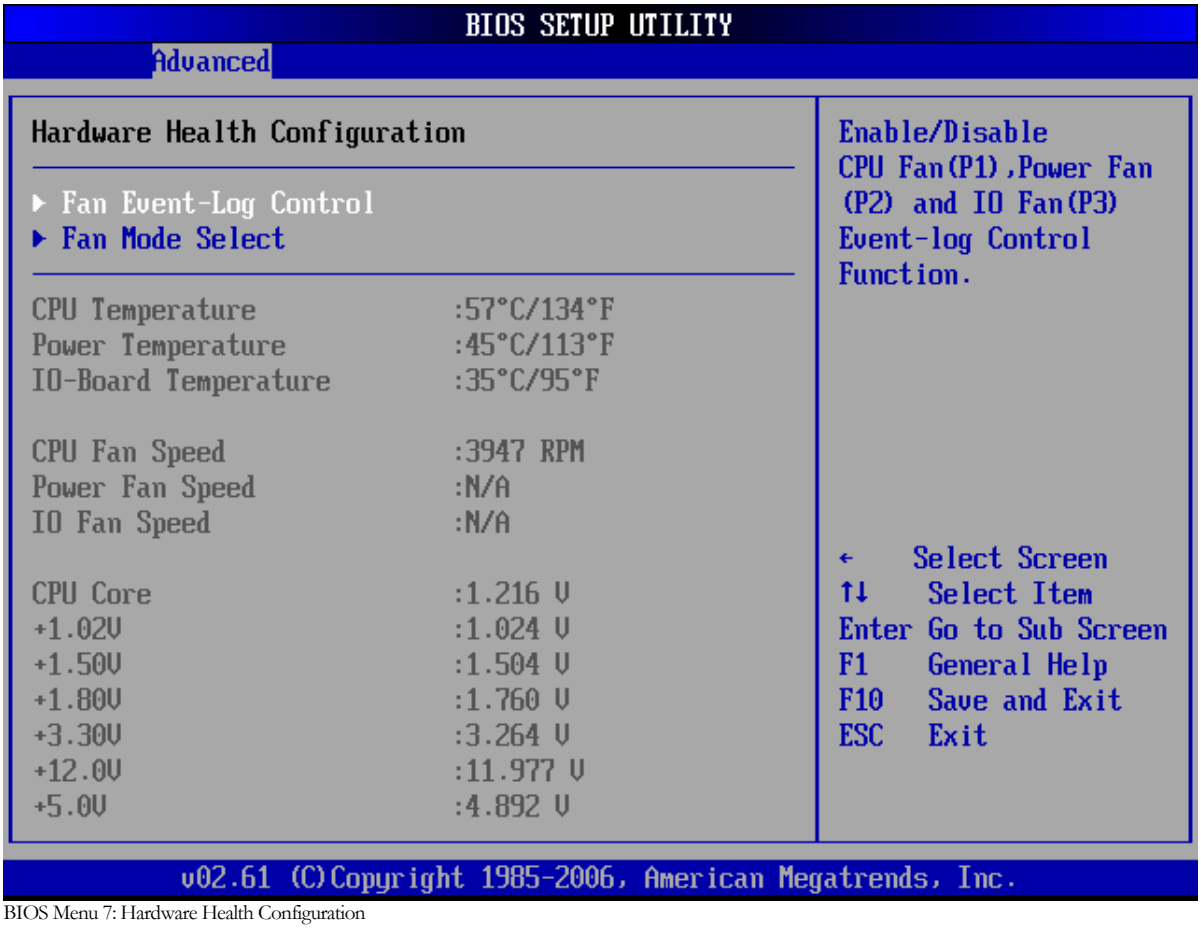
Use the **Serial Port3 Address** option to select the base addresses for serial port 3

➔ **Disabled** No base address is assigned to serial port 3

➔ **3E8/IRQ5** **DEFAULT** Serial port 3 I/O port address is 3E8

Hardware Health Configuration

The **Hardware Health Configuration** menu shows the operating temperature, fan speeds and system voltages.



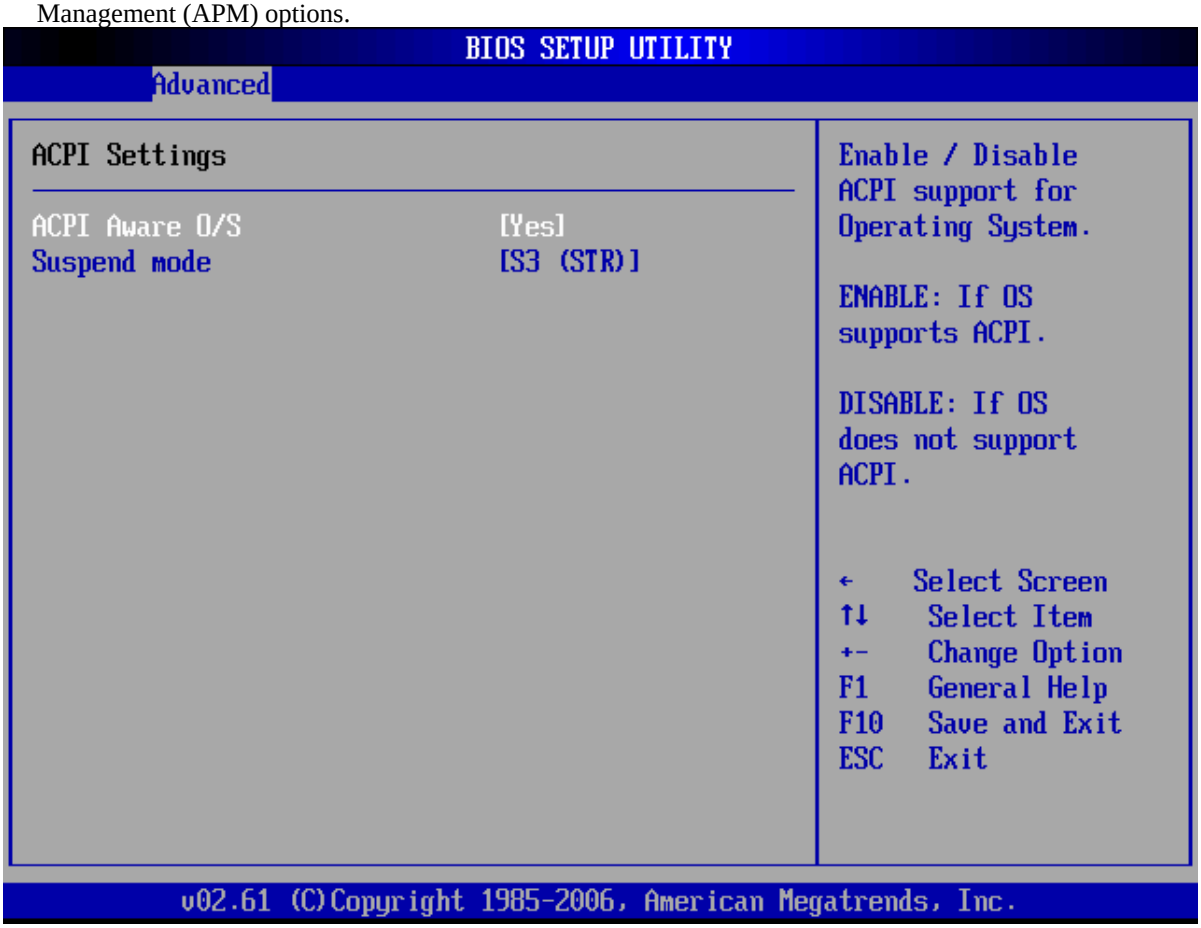
BIOS Menu 7: Hardware Health Configuration

The following system parameters and values are shown. The system parameters that are monitored are:

- **System Temperatures**: The following system temperatures are monitored
  - System Temperature 1
  - System Temperature 2
  - CPU Temperature
- **Fan Speeds**: The CPU cooling fan speed is monitored.
  - Fan1 Speed
  - Fan2 Speed
- **Voltages**: The following system voltages are monitored
  - CPU Core
  - +3.30V
  - +5.00V
  - +12V
  - +1.5V

ACPI Configuration

The **ACPI Configuration** menu configures the Advanced Configuration and Power Interface (ACPI) and Power Management (APM) options.



BIOS Menu 8: ACPI Configuration

➔ ACPI Aware O/S [Yes]

Use the **ACPI Aware O/S** option to enable the system to configure ACPI power saving options. ACPI can only be implemented if the system OS complies with the ACPI standard. Windows 98, Windows 2000, and Windows XP all comply with ACPI.

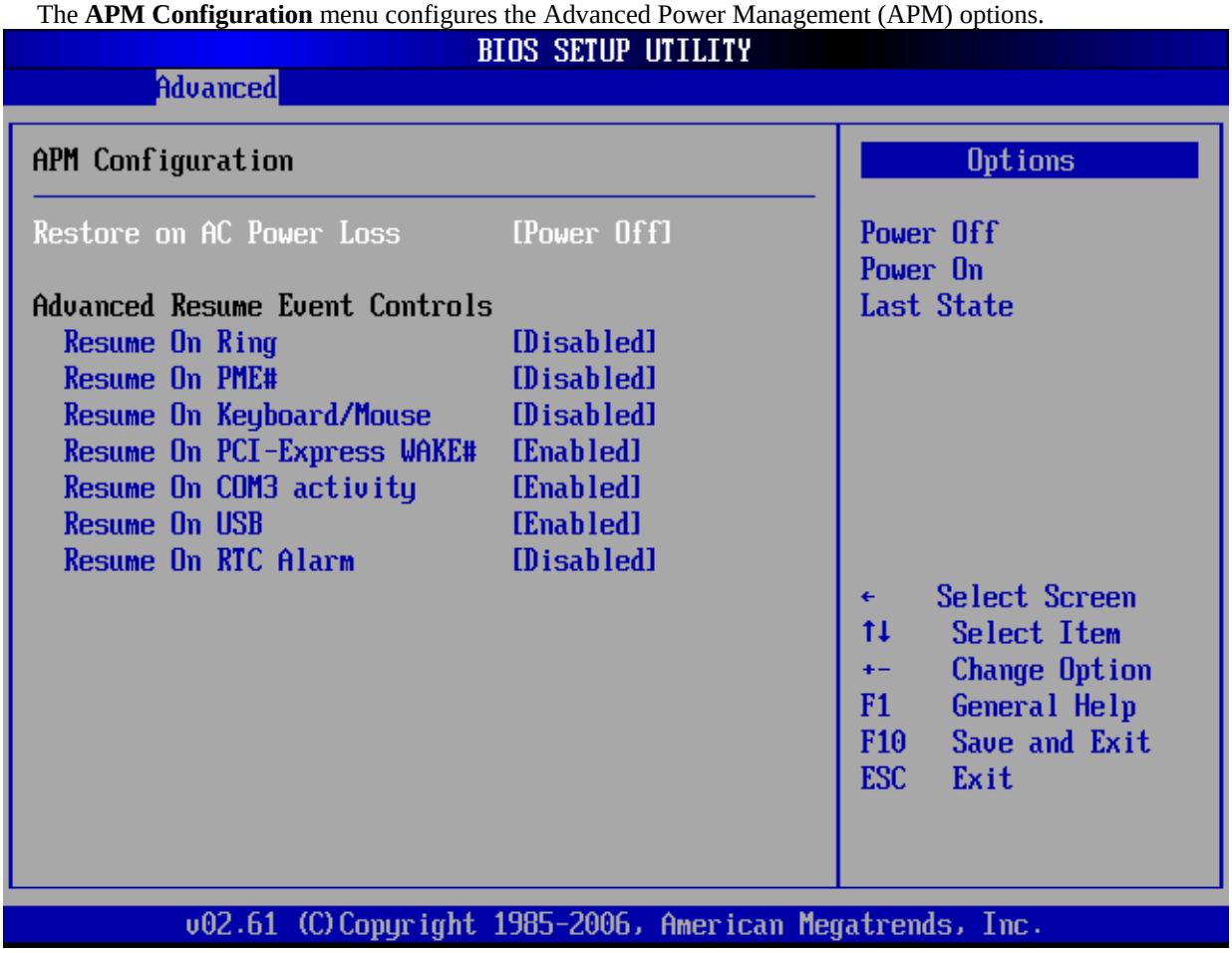
➔ **No** Disables the ACPI support for the OS. This selection should be disabled if the OS does not support ACPI

➔ **Yes** **DEFAULT** Enables the ACPI support for the operating system. This selection should be enabled if the OS does support ACPI

➔ Suspend Mode [S3 (STR)]

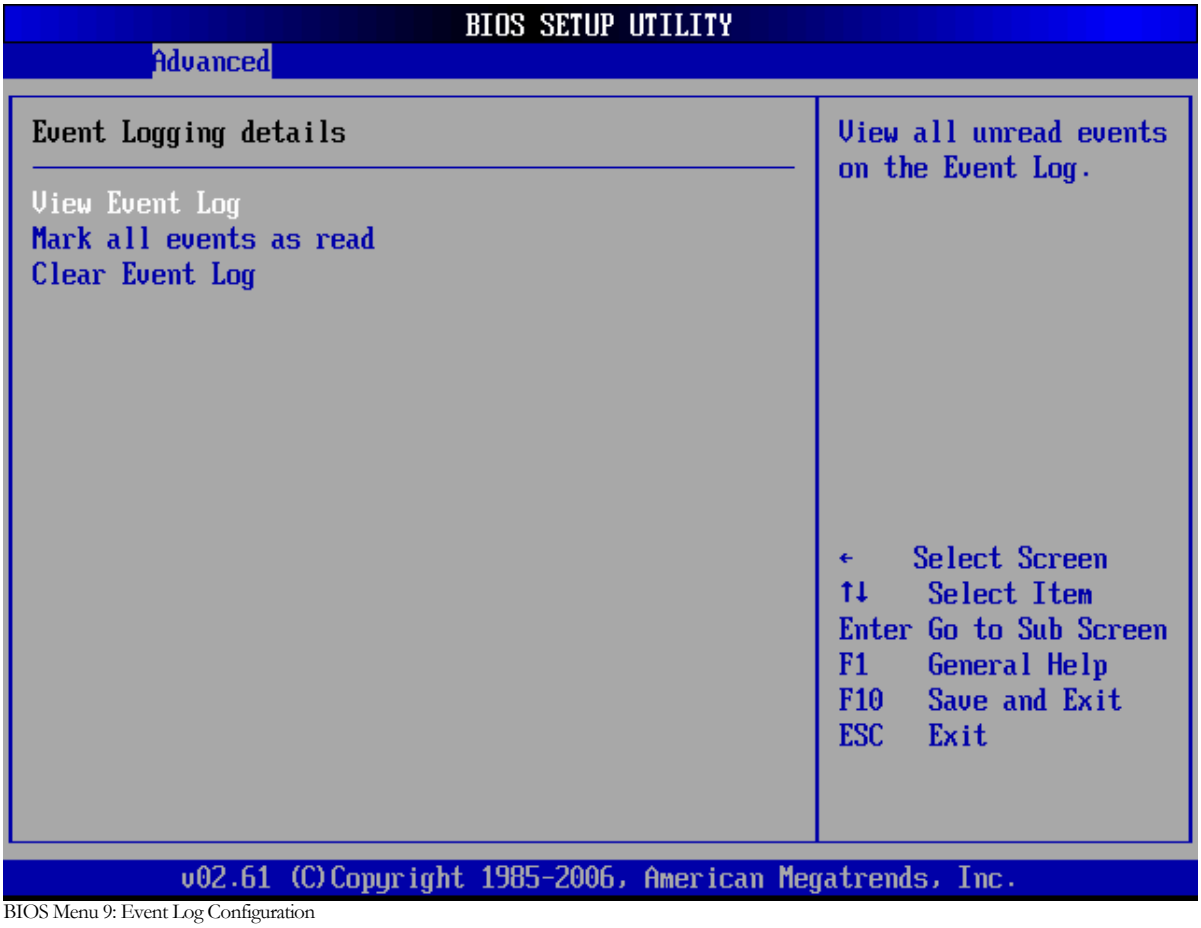
APM Configuration

The **APM Configuration** menu configures the Advanced Power Management (APM) options.



Event Log Configuration

Use the **Event Log Configuration** menu to view or delete the system event log storing POSt and run-time errors and events.



BIOS Menu 9: Event Log Configuration

➔ View Event Log

Enable the **View Event Log** option to view all unread event entries in a display window.

➔ Mark all event as read

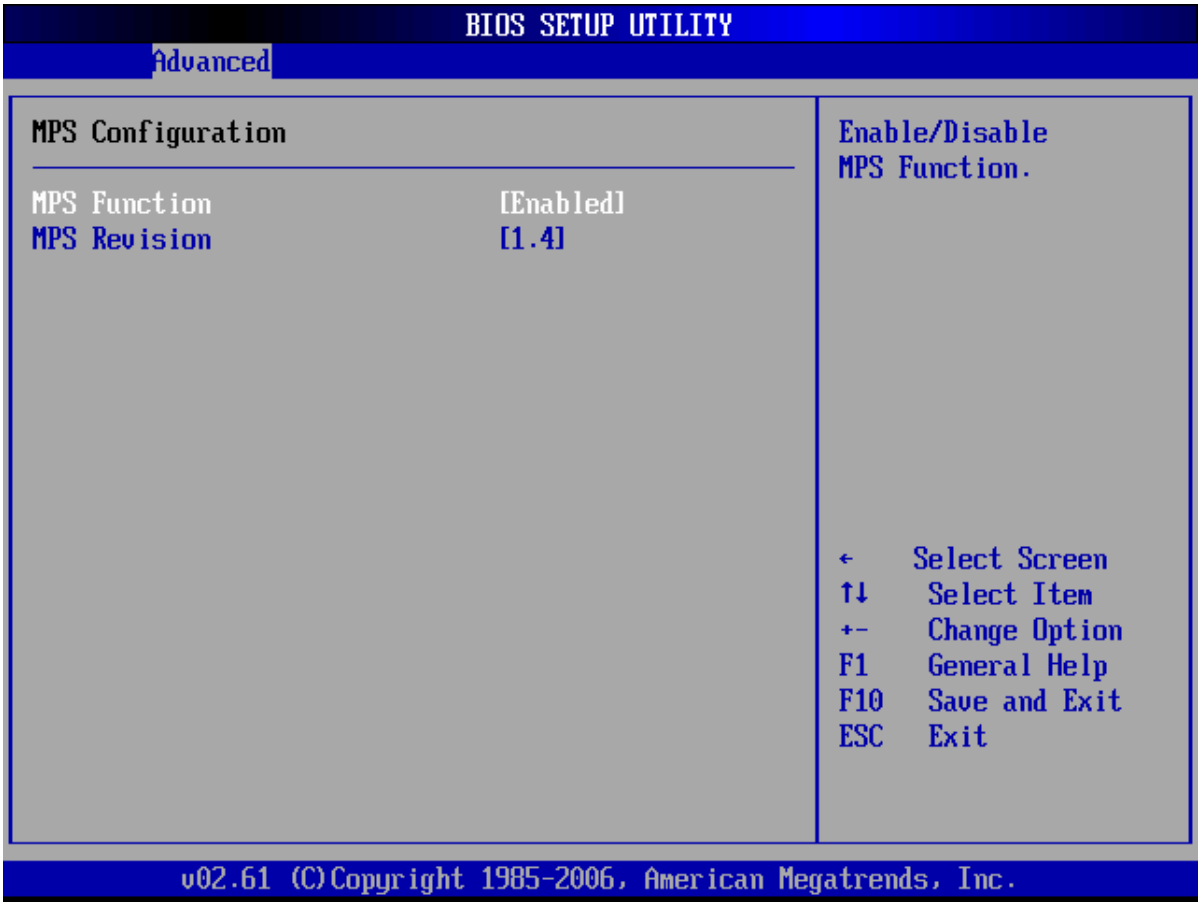
Enable the **View Event Log** option to mark all unread events as read.

➔ Clear Event Log

Enable the **View Event Log** option to discard all events in the Event Log.

MPS Configuration

Use the **MPS Configuration** menu to select the multi-processor table.



BIOS Menu 10: MPS Configuration

➔ MPS Function [Enabled]

Use the **MPS Function** option to enable or disable the MPS function.

- ➔ **Disabled** MPS function is enabled.
- ➔ **Enabled** **DEFAULT** MPS function is disabled.

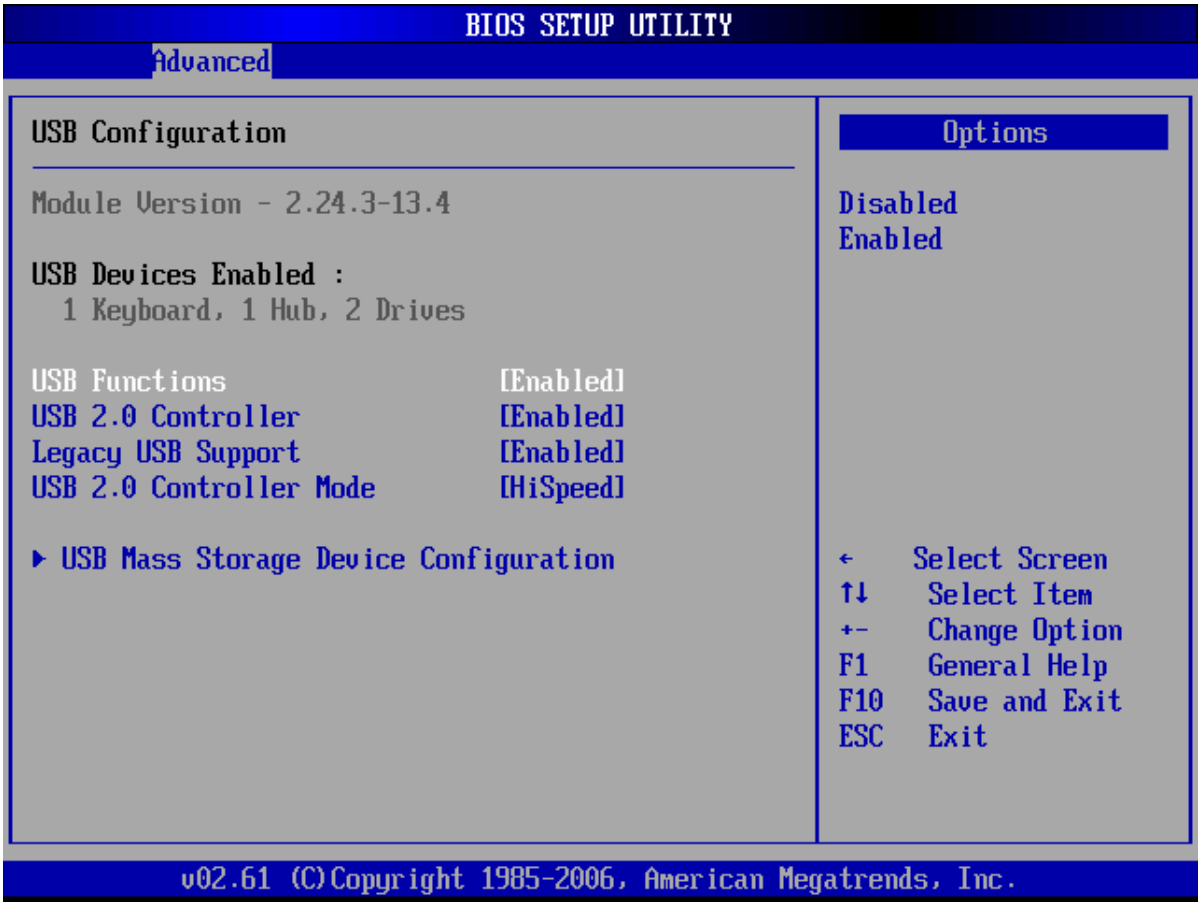
➔ MPS Revision [1.4]

Use the **Multiprocessor Specification (MPS) for OS** option to specify the MPS version to be used.

- ➔ **1.1** MPS version 1.1 is used
- ➔ **1.4** **DEFAULT** MPS version 1.4 is used

USB Configuration

Use the **USB Configuration** menu to read USB configuration information and configure the USB settings.



BIOS Menu 11: USB Configuration

➔ USB Configuration

The **USB Configuration** field shows the system USB configuration. The items listed are:

- Module Version: x.xxxxx.xxxxx

➔ USB Devices Enabled

The **USB Devices Enabled** field lists the USB devices that are enabled on the system

➔ USB Function [4 USB Ports]

Use the **USB Function** BIOS option to enable or disable a specified number of USB ports. If only two USB ports are being used, disabling the remaining six USB frees up system resources that can be redirected elsewehere.

➔ Legacy USB Support [Enabled]

The **Legacy USB Support** BIOS option refers to USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard does not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB driver loaded on the system.

➔ **Disabled** Legacy USB support disabled

➔ **Enabled** **DEFAULT** Legacy USB support enabled

➔ USB 2.0 Controller [Enabled]

Use the **USB 2.0 Controller** BIOS option to enable or disable the USB 2.0 controller

➔ **Disabled** USB 2.0 controller disabled

➔ **Enabled** **DEFAULT** USB 2.0 controller enabled

➔ USB2.0 Controller Mode [HiSpeed]

Use the **USB2.0 Controller Mode** option to set the speed of the USB2.0 controller.

➔ **FullSpeed** The controller is capable of operating at 12Mb/s

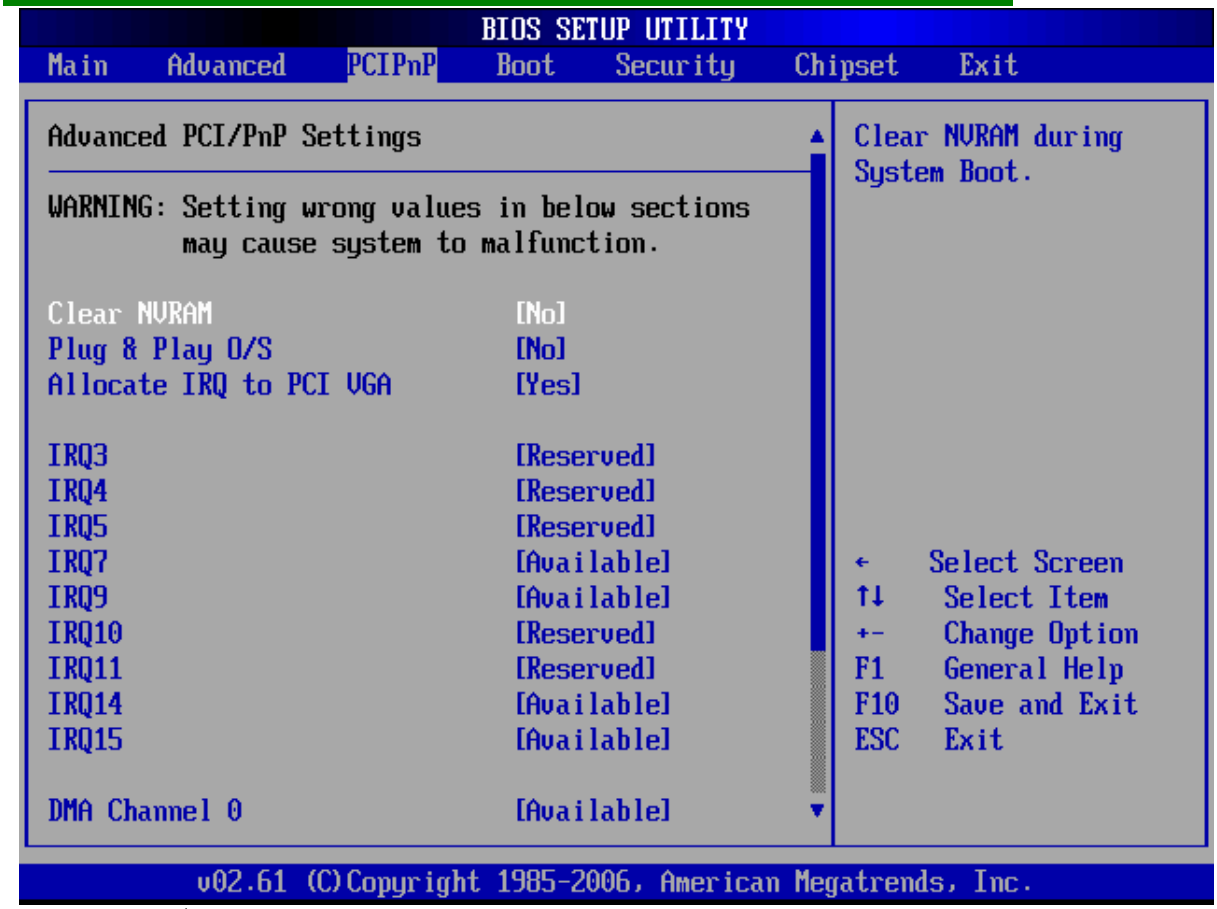
➔ **HiSpeed** **DEFAULT** The controller is capable of operating at 480Mb/s

PCI/PnP

Use the **PCI/PnP** menu to configure advanced PCI and PnP settings.

WARNING!

Setting wrong values for the BIOS selections in the PCIPnP BIOS menu may cause the system to malfunction.



BIOS Menu 12: PCI/PnP Configuration

➔ Clear NVRAM [No]

Use the **Clear NVRAM** option to specify if the NVRAM (Non-Volatile RAM) is cleared when the power is turned off.

➔ **No** **DEFAULT** System does not clear NVRAM during system boot

➔ **Yes** System clears NVRAM during system boot

➔ Plug & Play O/S [No]

Use the **Plug & Play O/S** BIOS option to specify whether system plug and play devices are configured by the operating system or the BIOS.

➔ **No** **DEFAULT** If the operating system does not meet the Plug and Play specifications, this option allows the BIOS to configure all the devices in the system.

➔ **Yes** This setting allows the operating system to change the interrupt, I/O, and DMA settings. Set this option if the system is running Plug and Play aware operating systems.

➔ IRQ# [Available]

Use the **IRQ#** address to specify what IRQs can be assigned to a particular peripheral device.

➔ **Available** **DEFAULT** The specified IRQ is available to be used by PCI/PnP devices

➔ **Reserved** The specified IRQ is reserved for use by Legacy ISA devices

Available IRQ addresses are:

- IRQ3
- IRQ4
- IRQ5
- IRQ7
- IRQ9
- IRQ10
- IRQ 11
- IRQ 14
- IRQ 15

➔ DMA Channel# [Available]

Use the **DMA Channel#** option to assign a specific DMA channel to a particular PCI/PnP device.

➔ **Available** **DEFAULT** The specified DMA is available to be used by PCI/PnP devices

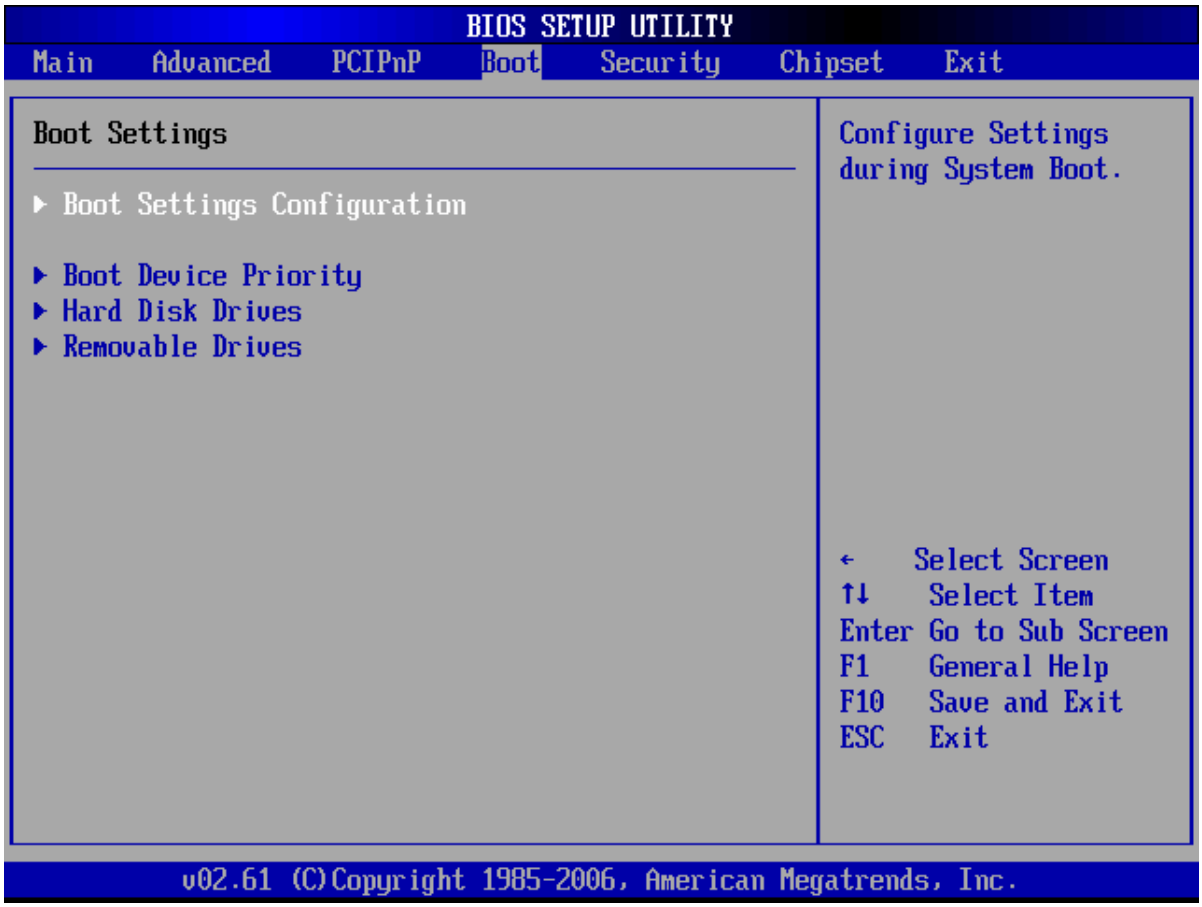
➔ **Reserved** The specified DMA is reserved for use by Legacy ISA devices

Available DMA Channels are:

- DM Channel 0
- DM Channel 1
- DM Channel 3
- DM Channel 5
- DM Channel 6
- DM Channel 7

Boot

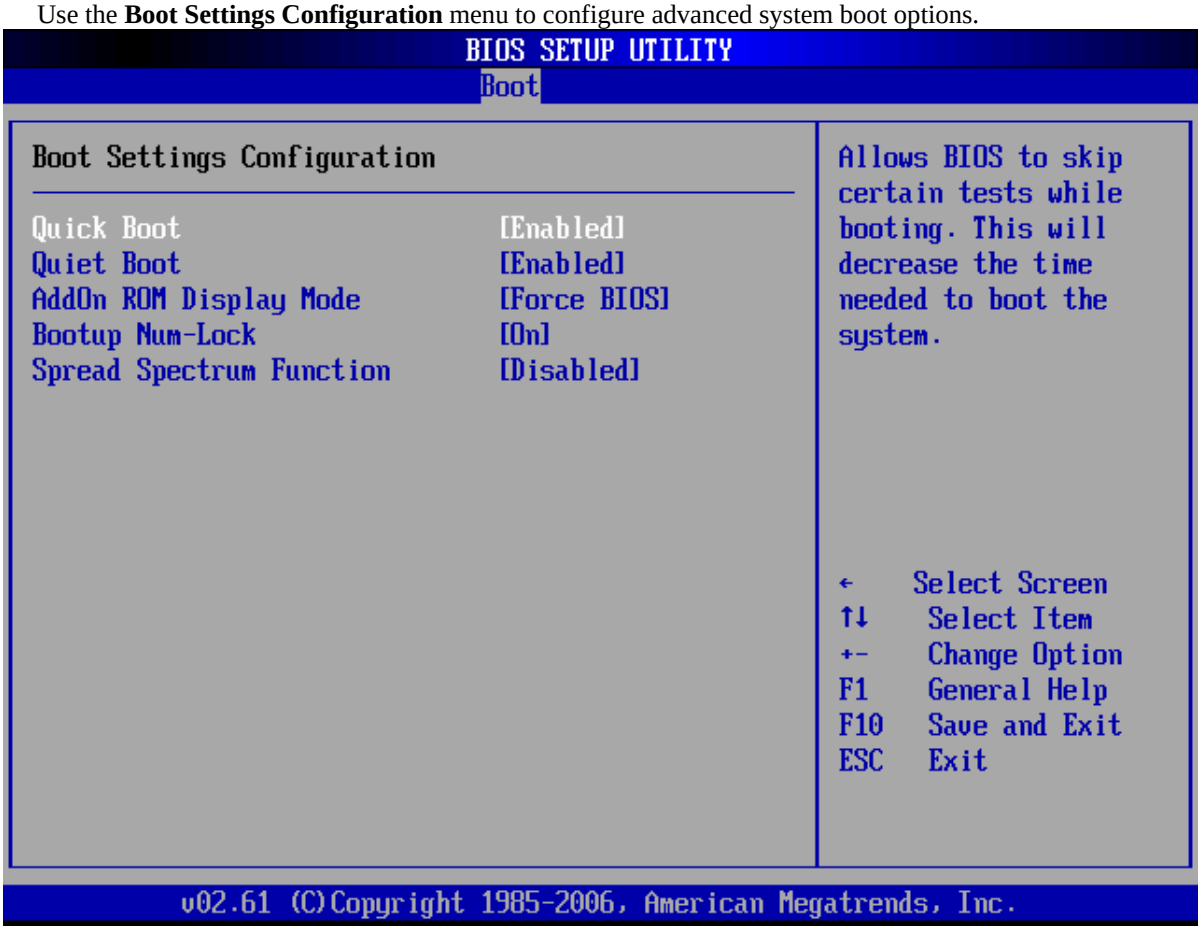
Use the **Boot** menu to configure system boot options.



BIOS Menu 13: Boot

Boot Settings Configuration

Use the **Boot Settings Configuration** menu to configure advanced system boot options.



BIOS Menu 14: Boot Settings Configuration

➔ Quick Boot [Enabled]

Use the **Quick Boot** BIOS option to make the computer speed up the boot process.

➔ **Disabled** No POST procedures are skipped

➔ **Enabled** **DEFAULT** Some POST procedures are skipped to decrease the system boot time

➔ Quiet Boot [Disabled]

Use the **Quiet Boot** BIOS option to select the screen display when the system boots.

➔ **Disabled** **DEFAULT** Normal POST messages displayed

➔ **Enabled** OEM Logo displayed instead of POST messages

➔ AddOn ROM Display Mode [Force BIOS]

Use the **AddOn ROM Display Mode** option to allow add-on ROM (read-only memory) messages to be displayed.

➔ **Force BIOS** **DEFAULT** The system forces third party BIOS to display during system boot.

➔ **Keep Current** The system displays normal information during system boot.

➔ Bootup Num-Lock [On]

Use the **Bootup Num-Lock** BIOS option to specify if the number lock setting must be modified during boot up.

➔	**Off**	Does not enable the keyboard Number Lock automatically. To use the 10-keys on the keyboard, press the Number Lock key located on the upper left-hand corner of the 10-key pad. The Number Lock LED on the keyboard lights up when the Number Lock is engaged.
➔	**On** **DEFAULT**	Allows the Number Lock on the keyboard to be enabled automatically when the computer system boots up. This allows the immediate use of the 10-key numeric keypad located on the right side of the keyboard. To confirm this, the Number Lock LED light on the keyboard is lit.

Boot Device Priority

Use the **Boot Device Priority** menu to specify the boot sequence from the available devices. Possible boot devices may include:

- 1st FLOPPY DRIVE
- HDD
- CD/DVD
- PAR NETWORK BOOT

Hard Disk Drives

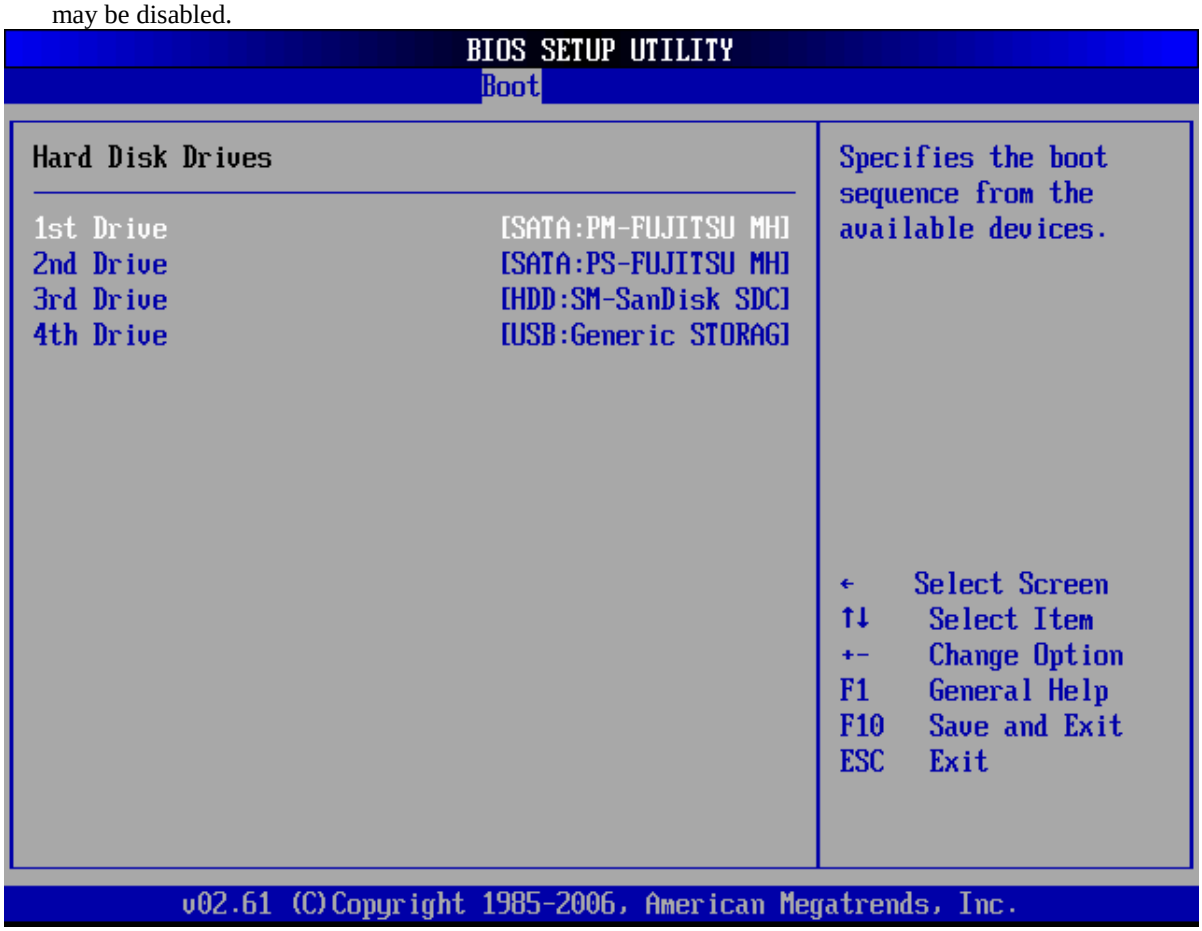
Use the **Hard Disk Drives** menu to specify the boot sequence of the available HDDs. When the menu is opened, the HDDs connected to the system are listed as shown below:

- 1st Drive [HDD: PM-(part number)]
- 2nd Drive [HDD: PS-(part number)]

NOTE:

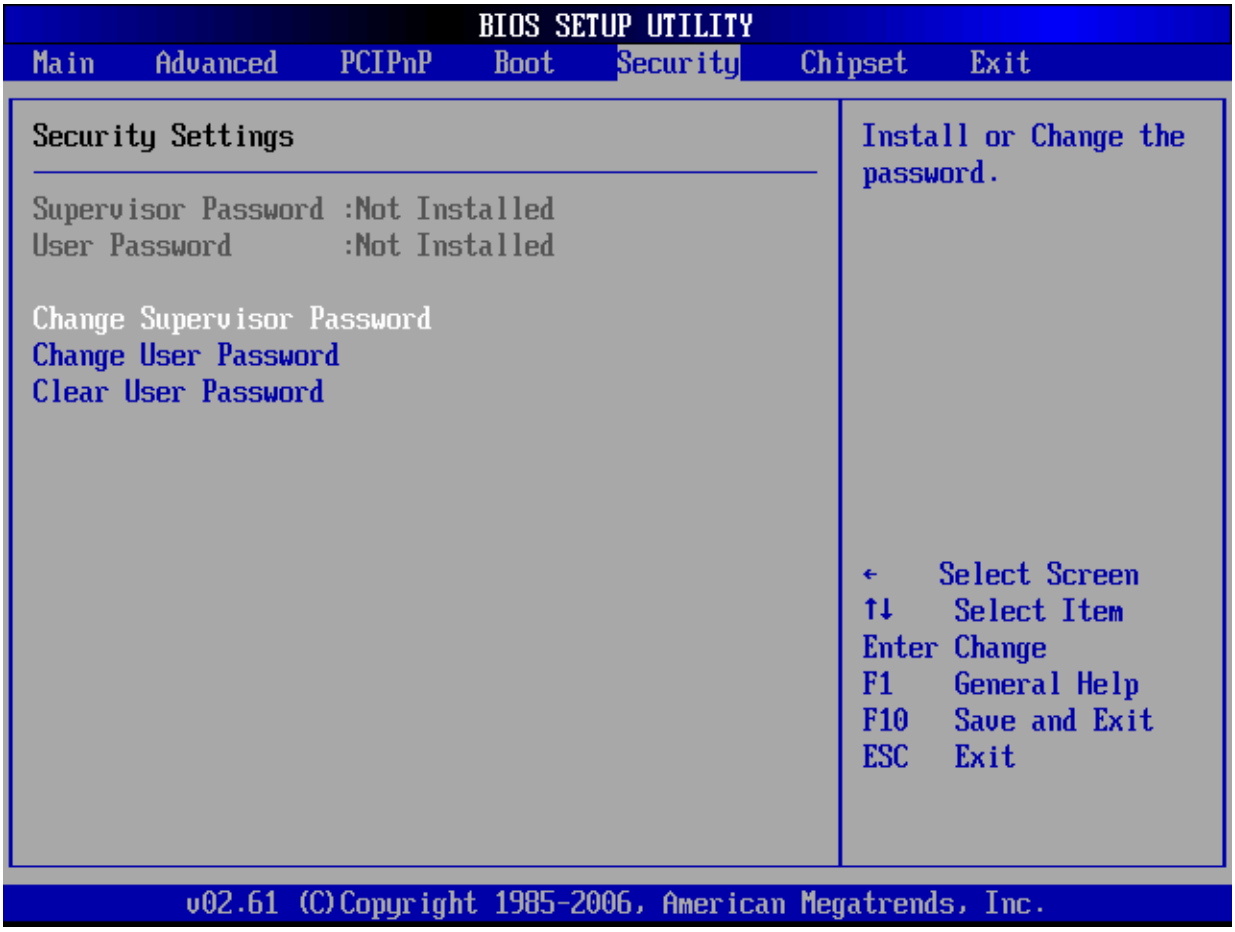
Only the drives connected to the system are shown. For example, if only two HDDs are connected only "**1st Drive**" and "**2nd Drive**" are listed.

The boot sequence from the available devices is selected. If the "**1st Drive**" option is selected a list of available HDDs is shown. Select the first HDD the system boots from. If the "**1st Drive**" is not used for booting this option may be disabled.



Security Settings

Use the **Security Settings** menu to set passwords for supervisor/user.



➔ **Supervisor Password [Not Installed]**

➔ **User Password [Not Installed]**

➔ **Change Supervisor Password**

Use the **Change Supervisor Password** option to change the supervisor password.

➔ **Change User Password**

Use the **Change User Password** option to change the user password.

➔ **Clear User Password**

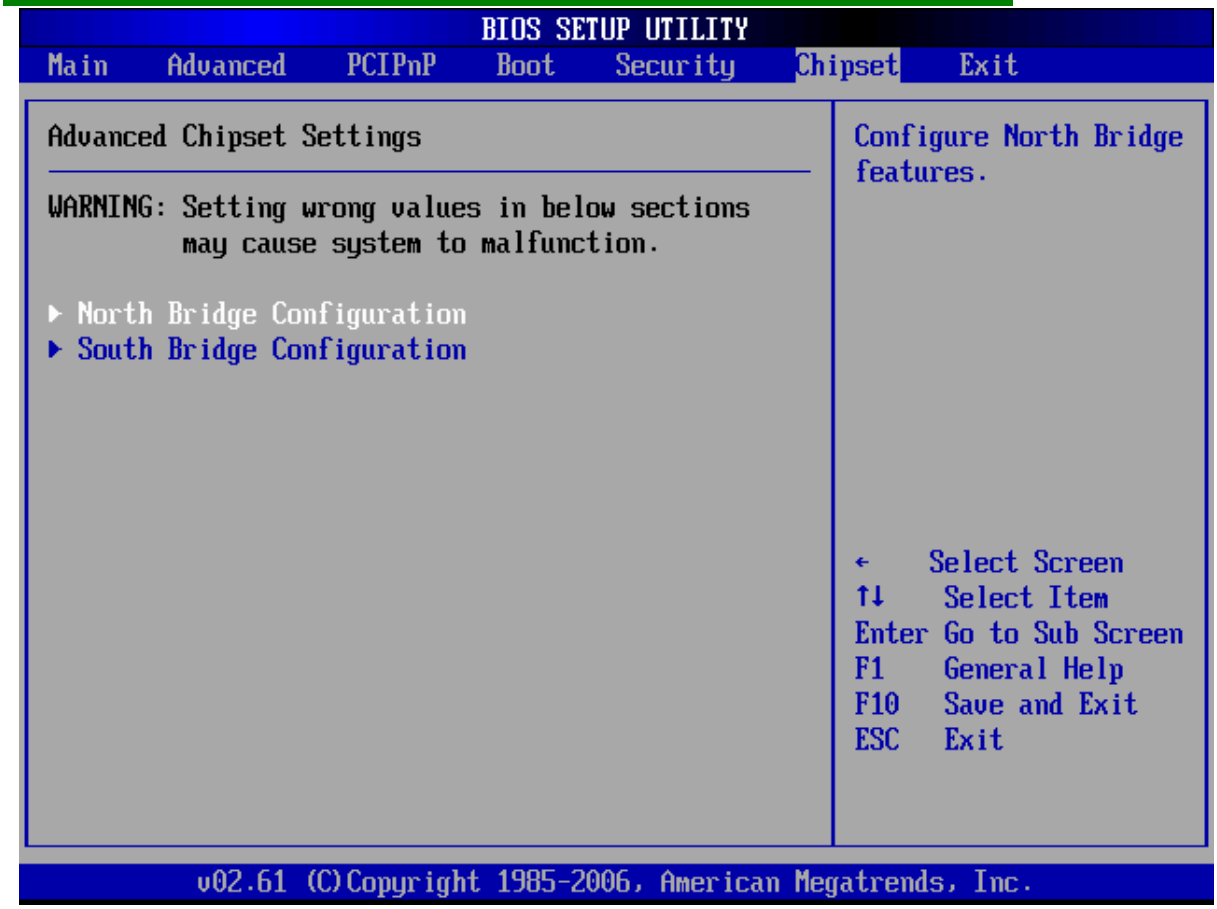
Use the **Clear User Password** option to clear the user password.

Chipset

Use the **Chipset** menu to access the North Bridge and South Bridge configuration menu.

WARNING!

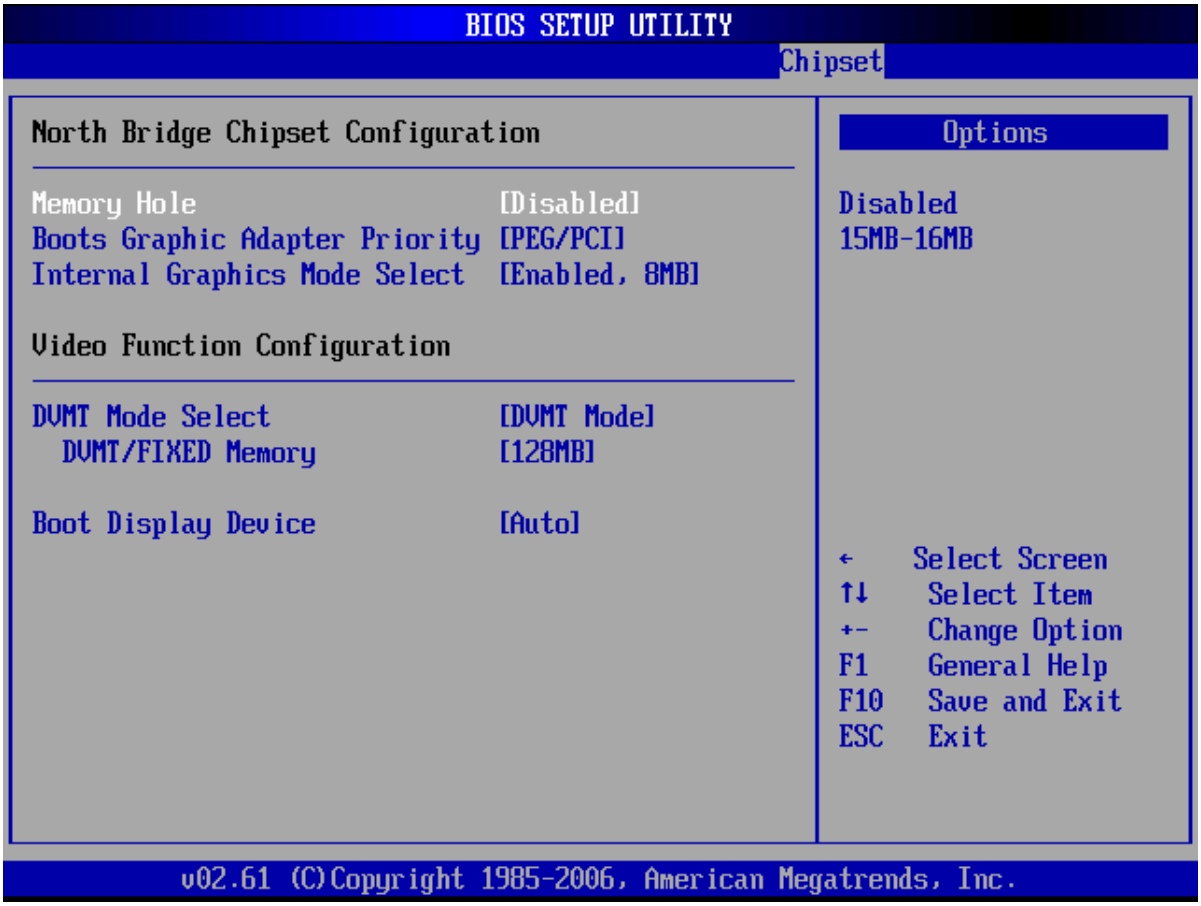
Setting the wrong values for the Chipset BIOS selections in the Chipset BIOS menu may cause the system to malfunction.



BIOS Menu 15: Chipset

North Bridge Configuration

Use the **North Bridge Configuration** menu to configure the North Bridge chipset.



BIOS Menu 16:NorthBridge Chipset Configuration

➔ Boot Graphic Adapter Priority [PEG/PCI]

The **Boot Graphic Adapter Priority** option selects the graphics controller the system uses as a primary boot device.

➔ Internal Graphics Mode Select [Enable, 8MB]

Use the **Internal Graphic Mode Select** option to specify the amount of system memory that can be used by the Internal graphics device.

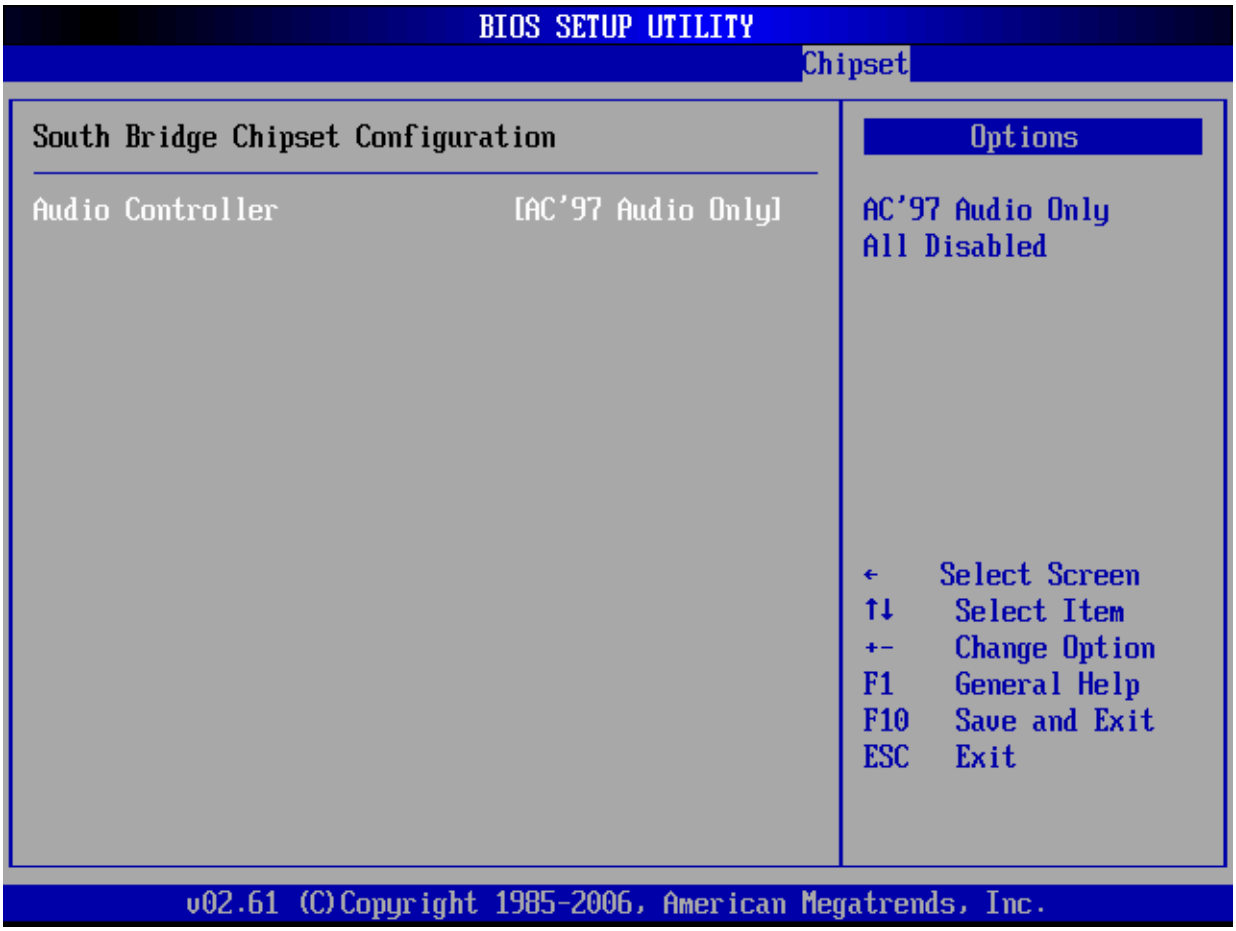
➔ **Disable**		
➔ **Enable, 1MB**		1MB of memory used by internal graphics device
➔ **Enable, 4MB**		4MB of memory used by internal graphics device
➔ **Enable, 8MB**	**DEFAULT**	8MB of memory used by internal graphics device
➔ **Enable, 16MB**		16MB of memory used by internal graphics device
➔ **Enable, 32MB**		32MB of memory used by internal graphics device

Video Function Configuration

Use the **Video Function Configuration** menu to configure the video device connected to the system.

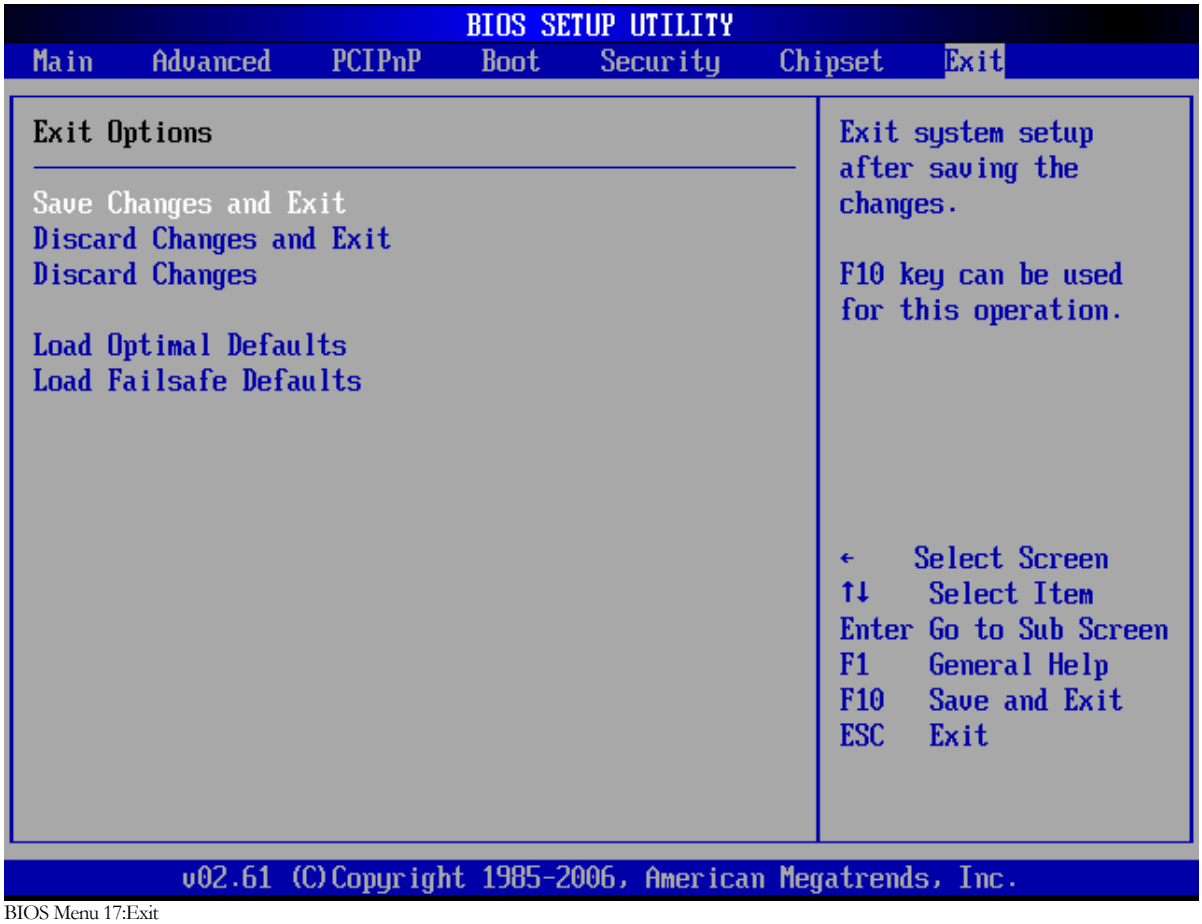
SouthBridge Configuration

Use the **SouthBridge Configuration** menu to configure the South Bridge chipset.



Exit

Use the **Exit** menu to load default BIOS values, optimal failsafe values and to save configuration changes.



BIOS Menu 17:Exit

➔ **Save Changes and Exit**

Use the **Save Changes and Exit** option to save the changes made to the BIOS options and to exit the BIOS configuration setup program.

➔ **Discard Changes and Exit**

Use the **Discard Changes and Exit** option to exit the BIOS configuration setup program without saving the changes made to the system.

➔ **Discard Changes**

Use the **Discard Changes** option to discard the changes and remain in the BIOS configuration setup program.

➔ **Load Optimal Defaults**

Use the **Load Optimal Defaults** option to load the optimal default values for each of the parameters on the Setup menus. **F9 key can be used for this operation.**

➔ **Load Failsafe Defaults**

ENERGY STAR

QUALIFIED COMPUTERS OVERVIEW

- Depending on usage, an ENERGY STAR qualified computer will use up to 50% less energy.
- Your office can save up to $90 per monitor per year by enabling computer and monitor's ENERGY STAR power management features.
- $1 billion annually in energy costs would be saved if every desktop and monitor in U.S. was set to sleep when not in use; while avoiding greenhouse gases comparable to emissions of 1 million cars.

ENERGY STAR POWER MANAGEMENT:

- ENERGY STAR power management features:
  - Standard in all Windows and Macintosh operating systems.
  - After periods of inactivity places computers and monitors into low-power mode.
- To maximize savings EPA recommends:
  - Standby mode after 30-60 minutes of inactivity.
  - Sleep after 5-20 minutes of inactivity.
- By activating ENERGY STAR power management features you can quickly and easily save energy, money, and help protect your environment.

ENERGY STAR COMPLIANCE:

Certain configurations of EverServ6000 Systems meet the terms with the requirements set by the Environmental Protection Agency (EPA) for energy-efficient computers. If the front of your system shows the ENERGY STAR logo, the system is configured and meets with the requirements; ENERGY STAR power management features are automatically enabled.

NOTE: If your EverServ has the ENERGY STAR logo It has been determined by PAR, as an ENERGY STAR partner, that your system complies with the ENERGY STAR guidelines for energy efficiency.

NOTE: When shipped all PAR systems showing the ENERGY STAR logo are certified to meet with EPA ENERGY STAR requirements. Changes made to your system configuration may increase power usage beyond limits set by EPA's ENERGY STAR Computers program.

ENERGY STAR Logo:

The EPA's ENERGY STAR Computers program, with the joint effort of computer manufacturers and the Environmental Protection Agency, aims to reduce air pollution by encouraging energy-efficient computer systems. ENERGY STAR computer product usage is estimated by the EPA to save computer users up to two billion dollars a year in electricity. This reduces the emissions of carbon dioxide, the gas primarily responsible for the greenhouse effect, and sulfur dioxide and nitrogen oxides, which are the primary causes of acid rain. As a user you can help reduce the electricity use including its side effects by shutting down your computer when it is not in use, nights and weekends.

APPENDIX A

Separating PPC from POS

1. Loosen the (2) thumbscrews under the Panel POS (operator side) which secure the cover over the main board IO connectors – remove cover.
2. Loosen the (2) thumbscrews under the pedestal which secure the (operator side) pedestal cover – remove cover.
3. Loosen the (2) thumbscrews under the pedestal which secure the side panels of the pedestal – remove side panels.
4. Loosen the (2) thumbscrews under the panel POS which secure the cable clamp which holds any peripheral cables attached to the main board.
5. Loosen the (2) thumbscrews on the operator side of the pedestal which secure the cable clamp as in step 4 above.
6. Remove any peripheral IO cables attached to the main board IO ports.
7. Loosen the (2) thumbscrews under the pedestal which secure the (customer side) pedestal cover – remove cover.
8. Loosen the thumbscrew on the pedestal side which secures the AC power cord to the power brick.
9. Disconnect AC power cord from the power brick.
10. Disconnect any cables to the IO board in the pedestal.
11. Loosen the thumbscrew on customer side of the pedestal which secures the power supply retaining bracket – remove bracket.
12. Remove the power supply.
13. Using a Philips screwdriver – remove the (2) screws at the top of the Panel POS on the customer side which secure the cover on the back side of the Panel POS – slide up and remove the back cover.
14. Disconnect the IO cable from the back side of the main board.
15. Disconnect the SATA cable from the back side of the main board.
16. Tilt the display assembly back and remove the (2) thumbscrews securing the Panel POS to the pedestal mount.
17. Tilt the display forward – slide panel POS straight up to remove.
18. Install the replacement Panel POS back cover (customer side).

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN 60950-1: 2001
  Safety of Information Technology Equipment

- EN50371 : (2002-03)
- Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) -- General public

- EN62311 : 2008
- Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)

- EN 300 328 V1.7.1: (2006-10)
- Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

- EN 301 893 V1.4.1: (2007-07)
- Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

  EN 301 489-1 V1.6.1: (2005-09)
  Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

- EN 301 489-17 V1.2.1 (2002-08)
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

CE 0560 !

SAFETY

- Before connecting cables or devices to connector wells, please turn off the power first thus preventing potential ESD damage.

- The service related to human safety is not allowed because this device may have the possibility of the radio interference.

- As this equipment has undergone EMC registration for business purpose (“A” class), the seller and/or the buyer is asked to beware of this point and designed to be used in the area, except for home use.

PAR PHONE NUMBERS

Service

USA: 800.382.6200

Canada: 800.387.4963

Parts

USA: 800.PAR.PART

Canada: 800.387.4963

Sales

Continental USA except New York: 800.448.6505

New York State Only: 800.533.6311

Outside Continental USA: 315-738-0600

Driver Support

http://www.partech.com/pti_products_services/service_existing_customer.cfm